Department of Mines and Explosives, Mysore State.

REPORT

OF THE

CHIEF INSPECTOR OF MINES AND EXPLOSIVES

IN MYSORE

FOR THE YEAR

1937-38

With Statistics for the Calendar Year 1937.

BANGALORE:
PRINTED BY THE SUPERINTENDENT AT THE GOVERNMENT PRESS
1939

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. D. 5062-5122—Geol. 28-38-1, dated 1st—5th December 1938.

Administration Report.

Reviews the —— of the Department of Mines and Explosives for the year 1937-38.

READ—

Letter No. 496 dated 15th September 1938, from the Chief Inspector of Mines and Explosives in Mysore, submitting the Administration Report of the Department of Mines and Explosives for the year 1937-38.

ORDER NO. D. 5062-5122—GEOL. 28-38-1, DATED BANGALORE, THE 1ST—5TH DECEMBER 1938.

Recorded.

2. The following tabular statement shows the output of gold and silver and the financial results of gold and silver mining operations during the years 1936 and 1937 :—

Mining Operations.	*1937.*	*1936.*
(i) Output of Gold ...	330,710·223 Ozs.	331,856·153 Ozs.
Output of Silver ...	24,642·07 ,,	25,344·66 ,,
(ii) Total value ...	£2,307,306-2-9	£2,316,426-6-6
(iii) Total amount paid in dividends.	£519,863-12-0	£558,203-6-6
(iv) Royalty payable to Government.	£193,443-4-11	£213,622-19-4
(v) Total demand under Royalty ...	Rs. 32,29,836-5-0*	Rs. 30,17,200-12-0
(vi) Totat collection under Royalty.	Rs. 28,47,342-0-0	Rs. 26,27,638-11-0

*Inclusive of the previous year's balance.

The schemes that were undertaken by the mining authorities last year for improving the working conditions at the bottom levels of the Champion Reef and the Oorgaum Mines, the two deepest mines of the Kolar Gold Fields, are reported to be nearing completion. In spite of all the arrangements made to reduce the heat in the mines, the air temperatures are still high and the working conditions enervating. There were 23 cases of heat exhaustion during the year against 22 in the previous year. The deepest workings on the Kolar Gold Fields are over 8,200 ft. vertically below field datum and the rock temperature at this depth was about 134° F.

3. *Mining Labour.*—The total number of persons employed in the mining industry in 1937 was 26,666 (24,581). Of this number, 24,239 were employed in gold mining. There was no change in the general working hours underground or on surface. It is gratifying to note that the mining authorities continued to bestow their attention to the improvement of the living conditions of, and the provision of additional social amenities for, the workmen on the Kolar Gold Fields.

4. *Mining Accidents.*—The total number of accidents reported during the year was 223 (244). Of these accidents, 42 were fatal, 176 serious and 5 non-mining. The total number of fatal and serious accidents was therefore 218, which works out to the rate of 8.18 per 1000 persons employed against 9·76 in the previous year. Though there has been a gradual decrease in the total number of accidents, the percentage of accidents due to negligence and recklessness was 17·89 per cent during the year as against 15·69 per cent in 1935 and 16.66 per cent in 1936. Accidents from such causes would not have occurred if the individuals concerned

had taken due care in carrying out the work entrusted to them. Government trust that continued education of the workmen in safety principles and stricter enforcement of the rules will help to minimise the occurrence of such accidents in future. In the 42 total accidents, 49 persons were either killed or they died as a result of injuries received, giving a mortality of 1·84 per 1000 persons employed against 2·44 per 1000 in 1936. Thirteen accidents due to rockbursts accounted for 19 deaths against 11 and 20, respectively, during the previous year.

During the year, 126 claims for compensation comprising 53 fatal, 3 permanent total disablement and 70 permanent partial disablement arose from accidents in the mines on the Kolar Gold Fields and the compensation awarded under all the above heads amounted to Rs. 70,986 (Rs. 69,658). Besides the above, compensation amounting to Rs. 29,088 was paid in cases of temporary disablement.

5. *Explosives Sections.*—During the year, 807 licenses (8 by Government and 799 by District Magistrates) were granted under the Mysore Explosives Rules against 922 during 1936. The total number of inspections of explosives premises carried out during the year by the Magistrates and Police Officers was 874 (582). This increase is stated to be due to the same premises in towns being inspected more than once in the year. A large number of premises in the interior is reported to have been left uninspected which is not satisfactory. The percentage of licensed premises inspected in all the districts was only 32·49 per cent as compared with 50·30 per cent in the previous year. The fall is noticeable in all the districts and the percentage in inspections is very low in the districts of Bangalore, Tumkur and Hassan. Government regret to note that, in spite of orders issued from time to time, there has been no improvement in this direction. The District Magistrates and the Inspector-General of Police are, therefore, requested to issue strict instructions to the concerned officers in regard to these inspections and take suitable notice of any neglience in this respect. There were 50 accidents due to explosives resulting in the death of 16 persons and injuries to 60 others against 41, 18 and 54, respectively, in the preceding year. Of the 50 accidents, 12 occurred on the Kolar Gold Fields resulting in the death of 7 persons and serious injuries to 15 others. Drilling into or intersecting sockets were the chief cause of these accidents and necessary action is stated to have been taken against persons responsible.

6. *Petroleum.*—During the year 174 (154) licenses were issued under the Mysore Petroleum Rules. The total quantities of dangerous petroleum and kerosene imported into the State during the calendar year 1937, were 2,535,378 gallons and 3,956,640 gallons, respectively, against 2,068,789 gallons and 3,858,118 gallons during 1936.

7. *Carbide of Calcium Rules.*—Five licenses were granted under the Carbide of Calcium Rules.

8. *Conclusion.*—The work of the department during the year was satisfactory.

J. APPAJI GOWDA,
Secretary to Government,
Development Department.

To—The Chief Inspector of Mines and Explosives in Mysore.
The Director of Geology in Mysore.
The Inspector-General of Police in Mysore.
The District Magistrates of Districts.
The Chief Electrical Engineer in Mysore.
The Secretary to Government, Electrical Department.
The Comptroller to Government.

PRESS TABLE.

Exd.—C.K.

WD 975—GPB—285—12-12-38

CONTENTS.

PAGE

A—STATEMENTS OF LEASES AND LICENSES CURRENT AT THE CLOSE OF THE YEAR 1937-38—

(a) Mining Leases 1
(b) Prospecting Licenses 2
(c) Collecting Licenses 3
(d) Exploring Licenses 3
(e) Summary 3

B—GOLD MINING—

I. Gold Production, Dividends and Royalty for the Calendar Year 1937 3

II. Total Gold Production, Dividends and Royalty from 1882 to the end of 1937 3

III. Statement showing the Amount of Royalty Payable to Government, the Amount Paid and the Balance still Due for the Year 1937 (Gold) 5
(Silver) 5

IV. Gold Production for the Six Months ending 30th June 1938 ... 6

V. Number of Mines 7

Underground Air Temperatures 10

VI. Notes on Mines—

Mysore Mine 13
Champion Reef Mine 14
Oorgaum Mine 15
Nundydroog Mine 15

VII. Electric Power Supply—

(a) Cauvery System 16
(b) Kolar Mines Power Station, Ltd. 17

C—CHROMITE, MANGANESE, MAGNESITE, COPPER, KAOLIN, SOAP-STONE AND SLATE-STONE—

1. Chromite ... ... - 18
2. Manganese 18
3. Magnesite 18
4. Copper 19
5. Kaolin 19
6. Soap-stone 19
7. Slate-Stone 19

Statement showing the Demand, Collection and Balance of Royalty on Minerals other than Gold during the Year 1937-38... 19

PAGE

D—OFFICIAL DUTIES, 1937-38 20

I. INSPECTION OF MINES 20

II. LABOUR EMPLOYED 23

III. ACCIDENTS—

(*a*) STATISTICS FOR THE YEAR 1937 25

(*b*) COMPENSATION FOR FATAL AND SERIOUS ACCIDENTS IN MINES ON THE KOLAR GOLD FIELD FOR THE YEAR 1937-38 27

(*c*) NOTES ON IMPORTANT ACCIDENTS DURING THE OFFICIAL YEAR 1937-38 28

IV. METEOROLOGY AND SEISMOLOGY ON THE KOLAR GOLD FIELD ... 31

V. PROSECUTIONS—

(*a*) IN CONNECTION WITH THEFTS, ETC., OF MINING MATERIALS ... 33

(*b*) IN CONNECTION WITH BREACH OF RULES, ACCIDENTS, ETC. ... 33

E—EXPLOSIVES SECTION—INSPECTION OF EXPLOSIVES, MAGAZINES AND PREMISES 34

STATISTICAL TABLES—

Table 1.—CAPITAL EMPLOYED, RETURNS, ETC.

" **2.**—MACHINERY AND PLANT—SPECIFICATION NO. 1.

" **3.**— DO DO NO. 2.

" **4**—WORK DONE AND NUMBER OF PERSONS EMPLOYED.

" **5.**—QUANTITIES AND COST OF MATERIALS CONSUMED AND WAGES PAID.

" **6.**—GOLD PRODUCTION AND WORKING COSTS.

" **7.**—CLASSIFICATION OF FATAL AND SERIOUS ACCIDENTS.

" **8.**—NUMBER OF FATAL AND SERIOUS ACCIDENTS PER 1,000 PERSONS.

" **9.**—NUMBER OF PERSONS KILLED IN ACCIDENTS.

" **10.**—NUMBER OF PERSONS SERIOUSLY INJURED IN ACCIDENTS.

" **11.**—COMPARATIVE TABLE OF MORTALITY, ETC., IN GOLD MINES IN MYSORE AND IN THE TRANSVAAL.

" **12.**—LIST OF MINING PROPERTIES LEASED, ASSIGNED OR ABANDONED DURING THE YEAR.

" **13.**—RECORD OF FATAL AND SERIOUS ACCIDENTS (*Mining*).

" **13-A.**— DO DO (*Non-mining*).

APPENDIX I.—NOTES ON THE ADMINISTRATION OF THE WORKMEN'S COMPENSATION ACT, ON THE KOLAR GOLD FIELD FOR THE YEAR 1937-38.

" **II.**—ACCIDENTS FROM EXPLOSIVES FOR THE YEAR 1937.

" **III.**—LIST OF AUTHORISED EXPLOSIVES.

" **IV.**—EXTRACTS FROM THE REPORT ON THE WORKING OF THE KOLAR GOLD FIELD POLICE FOR THE OFFICIAL YEAR 1937-38.

V.—EXTRACTS FROM THE ADMINISTRATION REPORT OF THE KOLAR GOLD FIELD SANITARY BOARD FOR THE OFFICIAL YEAR 1937-38.

REPORT

OF THE

CHIEF INSPECTOR OF MINES AND EXPLOSIVES IN MYSORE

FOR THE YEAR 1937-38.

A—MINING AND PROSPECTING.

(1) CERTIFICATES OF APPROVAL.

The number of Certificates of Approval current during the year was 27, of which six were freshly issued and the rest renewed.

(2) LEASES AND LICENSES.

The following statements show the number of leases and licenses current during the year as compared with the previous year 1936-37 :—

(a) Mining Leases.

Mineral	District	1936-37	1937-38
Gold	Kolar	21	21
Chromite	Mysore	2	2
	Hassan	5	5
Kaolin	Kolar	1	1
	Kolar and Bangalore ...	1	1
Magnesite (also Chromite) ...	Mysore	3	3
Manganese	Chitaldrug	3	3
Mica	Hassan	...	1
	Total ...	36	37

District Abstract

District.	*1936-37.*	*1937-38.*
Mysore	5	5
Kolar	22	22
Kolar and Bangalore	1	1
Hassan	5	6
Chitaldrug	3	3
Total ...	36	37

(b) Prospecting Licenses.

Mineral	District	1936-37	1937-38
Asbestos	Hassan	1	1
Asbestos and Mica	Hassan	1	1
Copper	Chitaldrug	1	1
	Mysore	1	1
Copper, Lead and Silver ...	Chitaldrug	2	2
Chrome	Hassan	1	1
	Mysore	1	1
Gold	All Districts	1	1 Kolar District only.
Green Quartzite	Kadur	1	...
Iron	Chitaldrug	...	3
Kaolin or China Clay	Bangalore	1	8
	Kolar	3	2
	Chitaldrug	...	1
Kyanite	Hassan	3	3
Lead	Chitaldrug	1	1
Magnesite	Mysore	1	3
Manganese	Shimoga	9	10
	Tumkur	3	5
	Chitaldrug	4	5
Mica	Mysore	2	2
Ochres	Chitaldrug	2	2
	Tumkur	1	1
Slatestone	Tumkur	3	1
	Total ...	43	56

District Abstract.

District.	*1936-37.*	*1937-38.*
Bangalore	1	8
Mysore	5	7
Kolar	3	3
Tumkur	7	7
Kadur	1	...
Hassan	6	6
Shimoga	9	10
Chitaldrug	10	15
All Districts	1	...
Total ...	43	56

(c) Collecting Licenses.

Mineral.	*District.*	*1936-37.*	*1937-38.*
apstone ...	Tumkur ...	3	3
	Total ...	3	3

(d) Exploring Licenses.

Mineral.	*District.*	*1936-37.*	*1937-38.*
Corundum ...	Mysore ...	1	...
Manganese ...	Shimoga ...	1	...
All Minerals ...	Bangalore ...	...	1
	Mysore ...	...	1
	Kolar ...	...	1
	Shimoga ...	...	1
	Total ...	2	4

(e) Summary.

The following statement shows the number of leases, licenses and approval certificates current during the year as compared with the previous year :—

	1936-37.	*1937-38.*
1. Mining Leases ...	36	37
2. Prospecting Licenses ...	43	56
3. Collecting do ...	3	3
4. Exploring do ...	2	4
5. Certificates of Approval ..	27	27
Total ...	111	127

Total area covered by Mining Leases and Prospecting Licenses .—

1936-37.	*1937-38.*
61,508 acres and 21 guntas.	72,323 acres and 23 guntas.

The above figures exclude the area of 2,360 square miles held by the Indian Mines Development Syndicate, Limited, under a special prospecting license for gold till 14th May 1938, from which date the license has been surrendered.

The total rent including cesses realised is noted below :—

1936-37	*1937-38.*
Rs. 20,667-1-3.	Rs. 19,411-14-3.

The slight fall is due to relinquishment of the special license for gold held by the Indian Mines Development Syndicate, Limited.

B—GOLD MINING.

1. Gold Production, Dividends and and Royalty for the Calendar year 1937.

The nominal capital of all the companies carrying on operations in Mysore was—

	£	*s.*	*d.*
In December 1937	1,628,000	0	0
In December 1936	1,628,000	0	0

or the same for both years.

The amount of the above capital called and paid-up was—

	£	*s.*	*d.*
In December 1937	1,578,772	0	0
In December 1936	1,578,772	0	0

or the same for both years.

The number of companies which carried on operations during the year was the same as in the previous year, *viz.*, four, all of which produced gold and paid dividends.

The quantity of fine gold produced—

		Ozs.
During 1937 amounted to	... ...	330,710·223
and during 1936 to	... ...	331,856·153
being a decrease of	... ...	1,145·930

The quantity of fine silver produced—

		Ozs.
During 1937 amounted to	... ...	24,642·07
and during 1936 to	... ...	25,344·66
being a decrease of	... ...	702·59

The total value of fine gold and silver produced—

		£.	s.	d.
During 1937 amounted to	... ...	2,307,306	2	9
and during 1936 (revised)	... ...	2,316,426	6	6
being a decrease of	... ...	9,120	3	9

or a decrease of 0·39 per cent as against an increase of 0·81 per cent in the previous year, the decrease being due to reduced output.

The total amount paid in dividends—

		£	s.	d.
During 1937 was	... ...	519,863	12	0
and in 1936	... ...	558,203	6	6
being a decrease of	... ...	38,339	14	6

The total dividends paid during the year by all the companies amounted to 32·23 per cent of the paid-up capital, the corresponding figure for 1936 being 35·36 per cent.

The royalty payable to Government on the gold and silver won and on dividends paid or adjusted profits amount to—

		£	s.	d.
During the year 1937	... .	193,443	4	11
and in 1936 (revised)	... ...	213,622	19	4
being a decrease of	... ...	20,179	14	5

the decrease being 9·45 per cent as against an increase of 9·28 per cent in 1936 (revised) due to decreased production and lower rates of dividends declared by Champion Reef, Ooregum and Nundydroog Companies.

II. Total Gold Production, Dividends and Royalty from 1882 to the end of 1937.

The total quantity of fine gold produced from the commencement of mining operations is—

		Ozs.
Up to the end of 1936	... .	18,567,050·587
and for 1937	... ...	330,710·223
	Grand Total ...	18,897,760·810

The total value of gold bullion produced—

		£.	s.	d.
Up to the end of 1936 (revised)	... ...	84,128,586	5	3
and for 1937	... ...	2,307,306	2	9
	Grand Total ..	86,435,892	8	0

Total dividends paid—

	£	s.	d.
Up to the end of 1936	25,005,655	11	8
and for 1937	519,863	12	0
Grand Total ...	25,525,519	3	8

The amount of royalty which has been paid to Government is—

	£	s.	d.
Up to the end of 1936 (revised)	4,686,660	8	3
and for 1937	193,443	4	11
Grand Total ...	4,880,103	13	2

The total value of gold produced, working costs, profits earned, dividends declared and royalty paid from the commencement of operations to the end of the year 1937 are graphically represented in the following Chart I. The ratio of total dividends and royalty paid to the nominal capital of the present working companies on the Kolar Gold Field works out at 15·68 and 3·00 respectively.

III. Statement showing the Amount of Royalty Payable to Government, the Amount Paid and the Balance still due for the year 1937.

(As furnished by the Comptroller).

GOLD (A).

No.	Name of Mine	Balance due on account of the previous year	Amount due for the current year	Total demand	Collection	Balance due (1st January 1938)
		Rs. a. p.	Rs. a. p. (a)	Rs. a. p. (a) (b)	Rs. a. p.	Rs. a. p.
1	Mysore	1,13,599 1 0	6,34,184 0 0	7,47,783 1 0	6,30,395 1 0	1,17,388 0 0
2	Champion Reef	81,088 10 0	6,43.375 5 0	7,24,463 15 0	6.42,085 2 0	82,378 13 0
	Ooregum	60,416 13 0	2,50,645 14 0	3,11,062 11 0	2,54,133 10 0	56,929 1 0
4	Nundydroog	1,33,701 9 0	13,10,378 4 0	14,44,079 13 0	13,19,045 7 0	1,25,034 6 0
	Total ...	3,88,806 1 0	28,38,583 7 0	32,27,389 8 0	28,45.659 4 0	3,81,730 4 0
	Total for 1936 ...	3,79,446 9 0	26.35,340 13 0	30,14.787 6 0	26,25,981 5 0	3,88,806 1 0

(a) These figures include the amounts paid during the year 1937 on account of royalty on dividends or "adjusted profits" and not the amounts actually due for the year 1937.

(b) In addition, a sum of Rs. 38-12-0 was paid by the Secretary, Kolar Gold Field Mining Board, on account of royalty on confiscated gold.

SILVER (B).

No.	Name of Mine	Balance due on account of the previous year	Amount due for the current year	Total demand	Collection	Balance due (1st January 1938)
		Rs. a p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Mysore	187 4 0	362 5 0	549 9 0	372 14 0	176 11 0
2	Champion Reef	167 11 0	336 0 0	503 11 0	339 6 0	164 5 0
3	Ooregum	175 5 0	348 4 0	523 9 0	370 0 0	153 9 0
4	Nundydroog	299 10 0	570 6 0	870 0 0	600 8 0	269 8 0
	Total ..	829 14 0	1,616 15 0	2,446 13 0	1,682 12 0	764 1 0
	Total for 1936 ...	761 7 0	1,651 15 0	2,413 6 0	1,583 8 0	829 14 0

IV. Gold Production for the Six Months ending 30th June 1938.

Name of Mine		Fine ozs.	Fine ozs.	Value £ Sterling (estimated)
Mysore—				
Current ore	...	47,835·63		
Retreatment of tailings dumps	...	...		
Other sources	...	...		
	Total ...	...	47,835·63	333,549
Champion Reef—				
Current ore	...	35,005·71		
Retreatment of tailings dumps	...	...		
Other sources	...	...		
	Total ...	...	35,005·71	244,089
Ooregum—				
Current ore	...	24,230·47		
Retreatment of tailings dumps	...	(a) 379·40		
Other sources	...	...		
	Total ...	...	24,609·87	171,600
Nundydroog—				
Current ore	...	46,682·57		
Retreatment of tailings dumps	...	2,912·82		
Other sources	...	(b) 398·36		
	Total ...	...	49,993·75	348,597
	Grand Total ...	...	157,444·96	1,097,835

NOTE.—The figures in this statement are subject to revision.

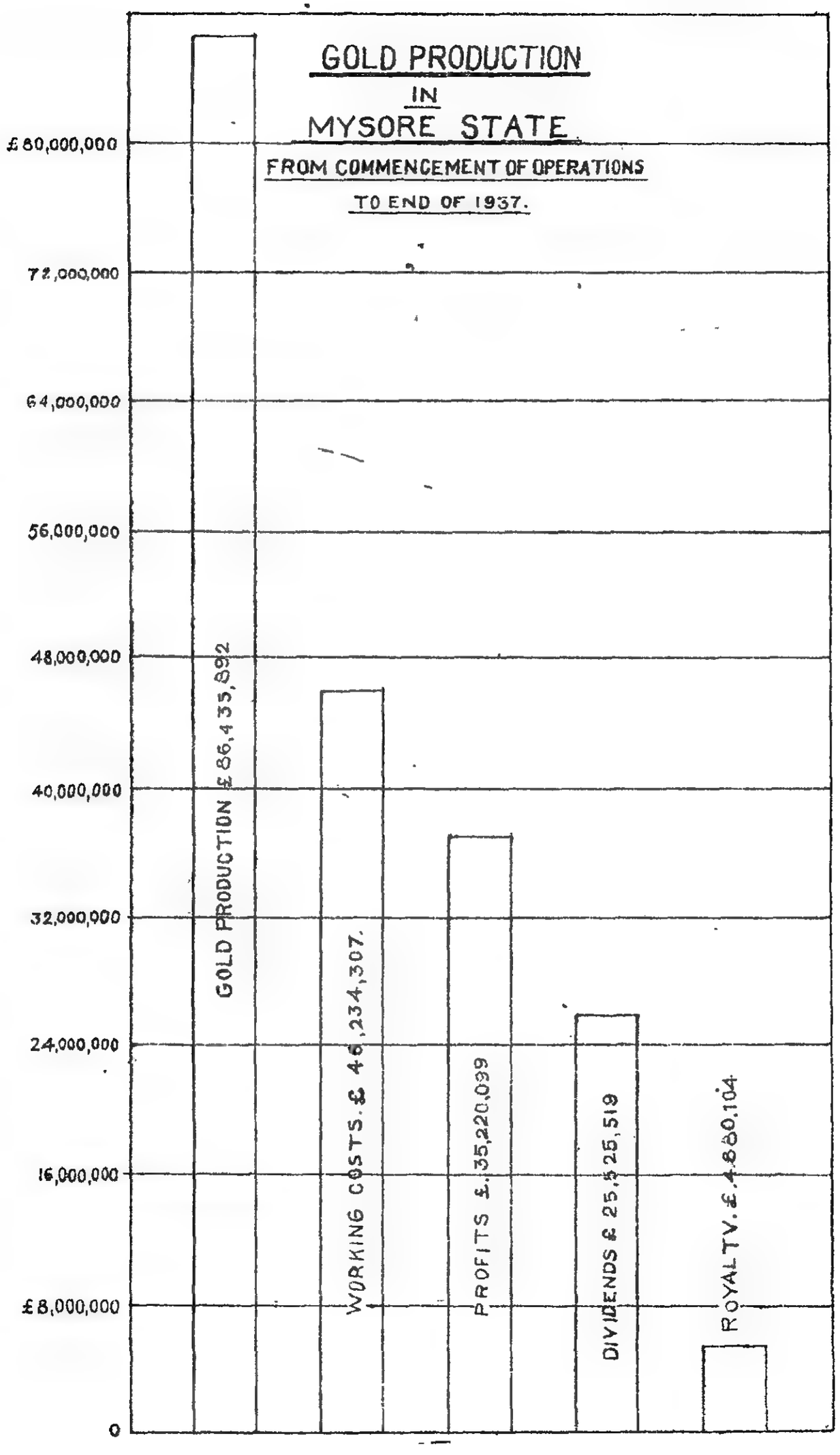
(a) Obtained from accumulated slimes.

(b) Mined and treated by Ooregum Company.

Price of Gold.—All the gold produced during the year was sold in India in the Bombay market and the monthly average prices varied from 138·02 sh. per oz. to 141·01 sh. per oz. The average price for the year was 139·01 sh. per oz. against 140·12 sh. per oz. in the year 1936-37.

The accompanying Chart II shows the monthly rate of production and the average price of gold during the years 1931 to 1937 and the firsthalf of 1938.

CHART. 1


GOLD PRODUCTION
IN
MYSORE STATE.
FROM COMMENCEMENT OF OPERATIONS
TO END OF 1937.
£80,000,000
72,000,000
64,000,000
56,000,000
48,000,000
40,000,000
32,000,000
24,000,000
16,000,000
£8,000,000
0
GOLD PRODUCTION £86,435,892
WORKING COSTS. £46,234,307.
PROFITS £.35,220,039
DIVIDENDS £25,525,519
ROYALTY. £.4,880,104

KOLAR GOLD FIELD

Monthly Gold Production And Price Curves Fro

1931 To 1937 & First Half Of 1938

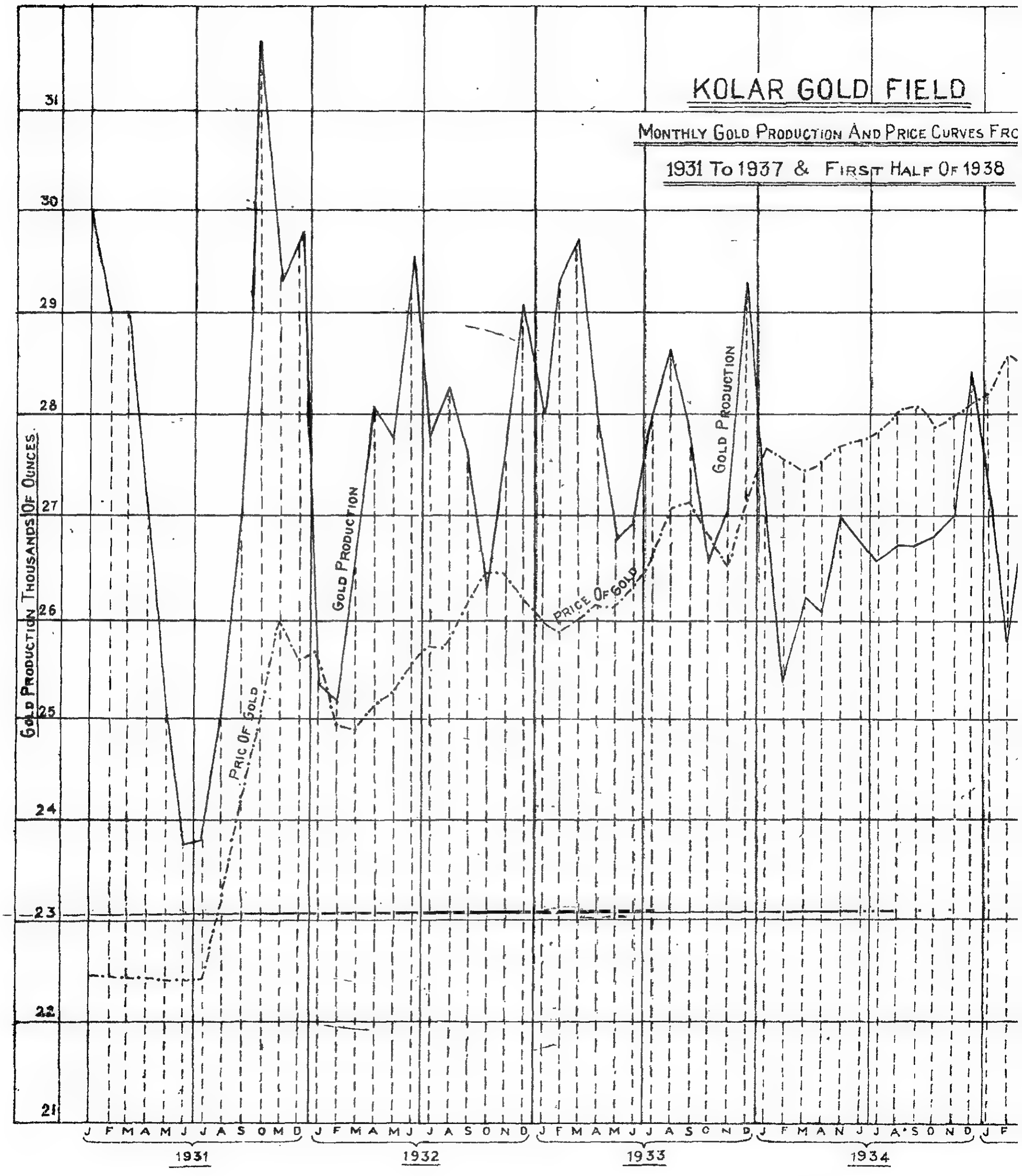
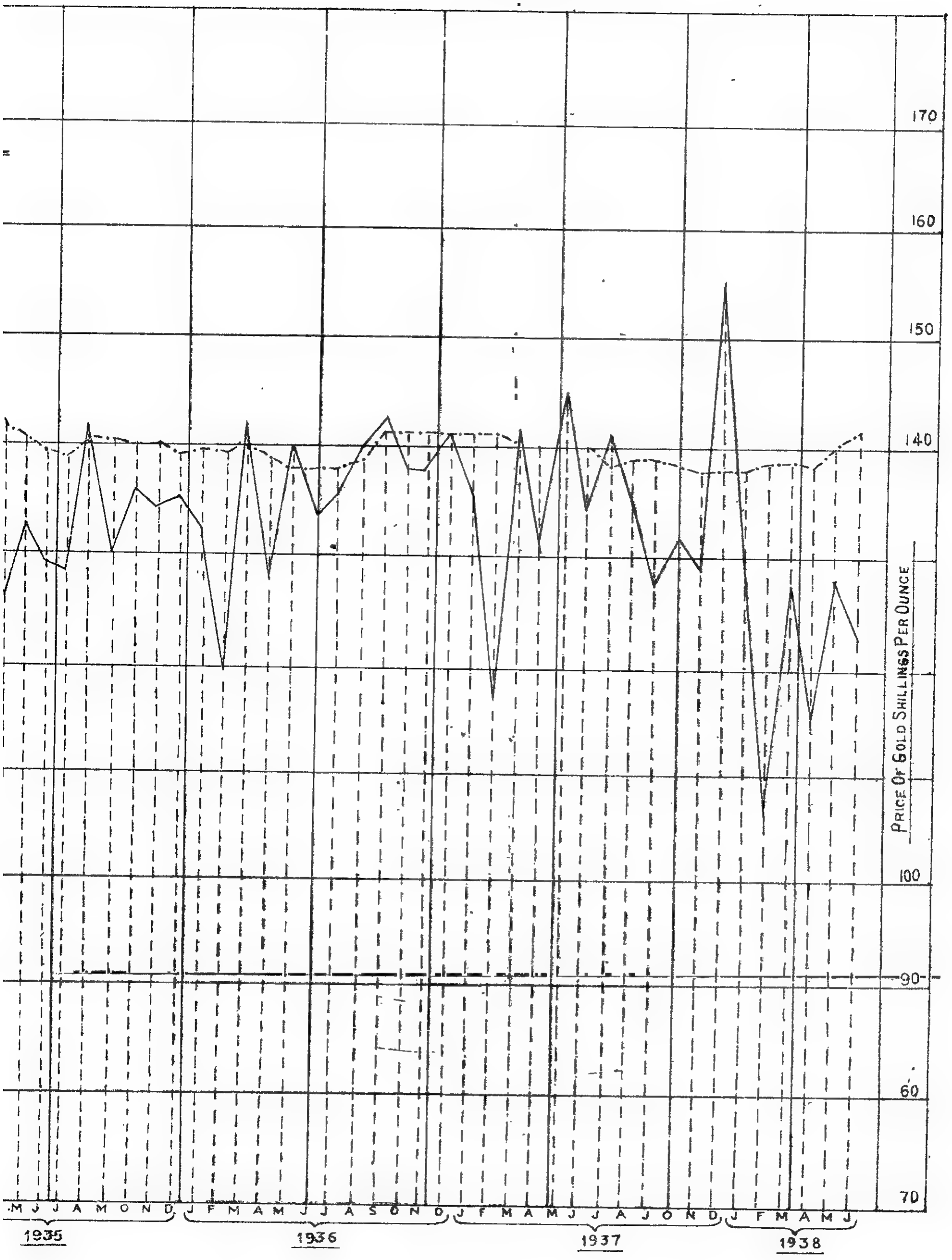


CHART 11.


170
160
150
140
100
90
60
70
PRICE OF GOLD SHILLINGS PER OUNCE
M J J A M O N D
J F M A M J J A S O N D
J F M A M J J A O N D
J F M A M J
1935
1936
1937
1938

V. Number of Mines.

GOLD.

Active or Producing.

Mining operations were in progress on the following blocks on the Kolar Gold Field as in the previous year :—

(1) Mysore Block, comprising Mining Leases Nos. 127, 128 129, 130, 134, 144, 151 and 152 worked by the Mysore Gold Mining Company, Limited.

(2) Champion Reef Block, comprising Mining Leases Nos. 121 and 136 worked by the Champion Reef Gold Mines of India, Limited.

(3) Ooregum Block, comprising Mining Leases Nos. 132 and 137 worked by the Ooegam Gold Mining Company of India, Limited.

(4) Nundydroog Block, comprising Mining Leases Nos. 120, 123, 139, 145, 146, 162 and 163 worked by the Nundydroog Mines, Limited.

Dividends.—All the mines paid dividends for the year under report; the total amount distributed was £519,863-12-0 or 32·23 per cent of the paid-up capital of all the companies against £558,203-6-6 or 35·36 per cent in the previous year, resulting in a decrease of £38,339-14-6 or 3·13 per cent. The Nundydroog Mines, Limited, paid the highest rate of dividend, *viz.*, 65 per cent—7½ per cent less than in the previous year. The Mysore Company paid the same rate as last year, *viz.*, 27½ per cent, while Champion Reef paid 42½ per cent and Ooregum 5 and 15 per cent on ordinary and preference shares, respectively, 2½ per cent less than in the previous year.

Output and Value.—The year's mining operations resulted in an output of 330,710·22 ozs. of fine gold and 24,642·07 ozs. of fine silver. The total value realised, *viz.*, £2,307,306-2-9 was £9,120-3-9 less than that of the previous year, which was due mostly to decreased production. Details of gold production, value, royalty, etc., are available in Table I appended to this report.

Tonnage Crushed.—The total quantity of current ore crushed by the four mines and the retreatment of old tailings by Ooregum and Nundydroog Mines amounted to 767,469 tons and 242,702 tons, respectively. The retreatment of old dumps of the Ooregum Company was completed in August 1937 and thereafter only 2,778 tons of accumulated slime was treated.

Ore Reserves.—All the Mines on the Kolar Gold Field continued to make additions to their ore reserves. On the whole, there was an increase of 55,125 tons as compared with the reserves at the end of 1936.

The following statement gives the estimated reserves of ore at the end of 1937 compared with 1936 :—

Name of Mine	1936	Average grade of ore per ton.	1937	Average grade of ore per ton.	Difference
	Tons.	Dwt.	Tons.	Dwt.	Tons.
Mysore ...	440,000	12·50	449,000	11· 8	+9,000
Champion Reef	471,149	11·36	496,605	11·52	+25,456
Ooregum ...	219,624	9·95	233,712	10·11	+14,088
Nundydroog ...	581,545	12·31	588,126	11·53	+6,581
Total ...	1,712,318	...	1,767,443	...	+55,125

In addition to the above, there is a further reserve of low grade ore payable at the present price of gold, details of which are given in the following statement :—

Name of Mine	1936	1937	Difference
	Tons.	Tons.	Tons
Mysore	284,000	297.000	+13,000
Champion Reef	111,194	110,038	—1,156
Ooregum ...	88,874	90,166	+1,292
Nundydroog	213,784	216,352	+2,568
Total .	697,852	713,556	15,704

The following statement gives the total tonnage of ore reserves including low grade ore (1937) and the average quantity crushed by each mine during the past five years :—

Name of Mine	Total reserves	Average tonnage crushed during the past five years
	Tons	Tons
Mysore	746,000	190,832
Champion Reef	606,643	135,790
Ooregum	323,878	149,108
Nundydroog	804,478	234,172
Total ..	2,480,999	709,902

Inactive or Non-Producing.

1. Krishnarajapur Block, Mining Lease No. 119.
2. East Betrayaswami Block, Mining Lease No. 118; option held by the Mysore Gold Mining Company, Limited.

Special Prospecting License.

It has to be recorded with regret that the only prospecting activity for gold in the State outside Kolar Gold Field ceased on the 14th of May 1938 owing to unfavourable results. The Indian Mines Development Syndicate, Limited, who had obtained a Special Prospecting License for gold and silver for a period of three years from 1936 over an area of 29,217 square miles, carried out a geo-physical survey of an area of about six square miles near the villages of Manighatta, Holur and Yadarur—15 to 20 miles North of the Kolar Gold Field—to locate the northern extension of the Kolar reefs but as no discovery of any value was made, arrangements are now in progress to fill up the shafts and trenches that were made during the course of exploratory work.

Ventilation.

The schemes that were undertaken last year for improving the working conditions at the bottom levels of the Champion Reef and the Ooregum Mines—

the two deepest mines of the Field—are nearing completion. The erection of the cooling plant at the top of Circular Shaft in Ooregum Mine has been completed and it is expected to be put into commission early. In the Champion Reef Mine, the extending of Gifford Shaft from the 42nd to the 70th level has been finished and a great improvement in the quantity and quality of the downcast air going down a straight smooth-lined shaft for a distance of 6,556 ft. is anticipated. Auxiliary fans and blowers are largely used to ventilate the development ends. All the important shafts and air-ways are smooth-lined as far as possible to reduce the frictional resistance to the flow of air.

In spite of all these arrangements to reduce the heat in the mines, the air temperatures are still high and the working conditions enervating. Ozonising underground atmosphere was tried in the Ooregum Mine last year by fixing ozonisers in specially selected places but it has not proved quite a success.

The following statement shows the number and particulars of fans installed in the mines on the Kolar Gold Field :—

Statement showing the ventilation Fans installed in the Mines working on the Kolar Gold Field. Field Datum is 2,967·21 feet above sea level (Madras).

Number Installed	Number In use	Situation and depth below surface	Vertical depth below Field Datum	Type of Fan	Size diameter of runner and width of casing in inches	Speed R.P.M.	Rated E.H.P. at surface	Volume of air in cubic feet per minute	Water gauge in inches	Size of fan outlet
		MYSORE GOLD MINING COMPANY, LIMITED.								
1	1	Ribblesdale's 51st level ...	3,711	Sirrocco	50″×36″	875		40,000	3·0	40″×40″
1	1	Rowse's 57th level ...	4,302	do	50″×36″	875		28,000	2·75	40″×40″
1	1	Air Shaft 50th level ...	3,582	do	40″×18″	480		9,000	1·0	24″×24″
1	1	Rowse's No. 2, 73rd level ...	5,891	do	40″×18″	480		23,000	2·5	24″×24″
1	1	North of Air Shaft, 59th level ...	4,502	do	25″×15″	750		18,000	2·0	20″×20″
1	1	Edgar's Auxiliary, 50th level ...	3,580	do	56″×64″	440		85,000	5·5	64″×86″
1	1	South Auxiliary, 80th level ...	6,580	do	20″×7⅛″	1,430		5,000	2·5	11″×11″
1	1	North Do do ...	6,580	do	20″×7⅛″	1,430		5,000	2·5	11″×11″
1	1	80th level North Auxiliary Vertical Shaft	6,580	Sturtevant	36″×12″	640	349	10,000	3·0	18″ dia
1	1	84th level Sub Vertical Shaft ...	6,980	do	36″×12″	640		10,000	3·0	18″ dia
1	1	Do do Drive ...	6,980	Torpedo	25″× 4″	1,450		4,000	2·5	18″ dia
1	1	Do Main Winze ...	6,980	do	25″× 4″	1,450		4,000	2·5	18″ dia
1	1	Do South Auxiliary Vertical No. 4 winze ...	6,980	do	25″×4 ″	1,450		4,000	2·5	18″ dia
1	1	84th level No. 1 winze ...	6,980	do	25″×4 ″	1,450		4,000	2·5	18″ dia
		CHAMPION REEF GOLD MINES OF INDIA, LIMITED.								
1	1	40th level converter Chamber ...	3,633	Sirocco	30″×24″	715	15	23,000	2·0	30″ dia
1	1	41st Rowe's ...	3,637	do	25″×46″	875	67	63,000	3·3	48″×64″
1	1	59th level South of Heathcote Shaft	5,425	do	55″×46″	375	36	47,918	3·5	48″×64″
1	1	40th level Glen's ...	3,633	do	55″×46″	365	60	47,268	1·9	48″×64″
1	1	59th North Carmichael's Shaft ...	5,425	Aeroto	50″	1,475	88	67,000	5·0	65″ dia
1	1	78th North Main Winze ...	...	Backward bladed	28⅛″×18⅛″	1,440	10	8,672	5·0	25⅛″×13⅛″
1	1	80th level Heathcote Shaft ...	7,600	do	28⅛″×13⅛″	1,440	12	12,200	2·41	25⅛″×13⅛″
1	1	80th level South of South Development Winze ...	7,600	do	28⅛″×13⅛″	1,440	12	9,420	4·0	25⅛″×13⅛″
		OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.								
1	1	Bullen's 66th level Blackman Fan ...	6,076	Sirocco	56″×53″	880	93	90,000	4·0	66″×53″
1	—	Bullen's 66th level Fan ...	6,076	do	50″×40″	360	36	41,000	3·0	40″×40″
1	—	Circular Shaft Fan at surface ...	100	do	77″×88″	362	252	225,000	4·1	88″×88″
1	1	Do do ..	100	Torpedo	95″×58″	730	236	200,000	4·6	95″ dia
1	–	Oakley' Shafts Fan at surface ...	183	Sirocco	84″×96″	296	204	208,000	4·0	96″×96″
1	1	Bullen's Induce Draught Fan ...	100	do	60″×40″	860	16	..	...	40″×40″
1	1	Auxiliary Shaft, 76th level Fan ..	7,028	Torpedo	75″ dia	735	76	80,000	5·0	75″ dia
1	1	Auxiliary Shaft, 84th level Fan ...	7,828	do	25″ dia	1,380 to 1,390	8	4,000	2·5	25″
1	1	Do do ..	7,828	do	25″ dia	1,880 to 1,390	8	4,000	2·5	25″
1	1	Auxiliary Shaft, 85th level Fan ..	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,921	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,390	8	4 000	2·5	25″
1	1	Do do ...	7,925	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Bullen's 65th level Fan ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Do do ...	7,928	do	Do	1,890	8	4,000	2·5	25″
1	1	Auxiliary Shaft, 73rd level Fan ...	6,728	Venturia	12″ dia	Variable	...	75	..	12″ dia
1	1	Do 76th do ..	7,028	do	Do	do	...	75	...	12″ dia
1	1	Do 80th do .	7,428	do	Do	do	...	75	...	12″ dia
1	1	Do 82nd do ..	7,628	Blower Fan	14″ dia	do	...	75	..	14″ dia

Number Installed	Number In use	Situation and depths below surface	Vertical depth below Field Datum	Type of Fan	Size diameter runner and width of casing in inches	Speed R.P.M.	Rated E. H. P. at surface	Volume of air in cubic feet per minute	Water gauge in inches	Size of fan outlet
1	1	Auxiliary Shaft, 84th level Fan ...	7,828	Blower Fan	14" dia	Variable	...	75		14" dia
1	1	Do 85th do ..	7,928	Venturia	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ..	7,928	do	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ...	7,928	do	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ...	7,928	do	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ...	7,928	Blower Fan	14" dia	do	...	75	...	14" dia
1	1	Do 85th do ...	7,928	do	14" dia	do	...	75	...	14" dia
1	1	Do 85th do ...	7,928	do	14" dia	do	...	75	..	12" dia
1	1	Do 85th do ...	7,928	Venturia	12" dia	do	...	75	...	12" dia
1	1	Do 86th do ...	8,028	Blower	14" dia	do	...	75	...	14" dia
1	1	Bullen's Shaft, 74th level Fan ...	6,828	Venturia	12" dia	do	...	75	...	12" dia
1	1	Do 82nd do ...	7,628	Blower Fan	14" dia	do	...	75	...	14" dia
1	1	Do 82nd do ...	7,628	Blower Fan	14" dia	do	...	75	...	14" dia
1	1	Do 85th do ...	7,928	Venturia	12" dia	do	...	75		12" dia
1	1	Do 85th do ...	7,928	do	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ...	7,928	do	12" dia	do	...	75	...	12" dia
1	1	Do 85th do ..	7,928	Heleshaw	...	do	...	180	...	15" dia
1	1	Do 85th do ...	7,928	do	...	do	...	180	...	15" dia
1	1	Do 86th do ...	8,028	Blower	14" dia	do	..	75	..	14" dia
		NUNDYDROOG MINES, LIMITED.								
1	1	48th level Balaghat North ...	4,184	Aeroto	75"	580	372	99,000	3·8	31 sq. ft.
1	1	48th level Taylor's South ...	4,186	Sirocco	56"×64"	416		98,000	4·8	48 sq. ft.
1	1	48th level Balaghat North ...	4,184	do	55"×40"	430		96,000	3·3	38·6 ,,
1	1	60th level No. 4 Auxiliary ...	5,473	do	20"×11"	1,450		8,000	5·5	18" Vent. pip.
1	1	63rd level No. 1 Do ...	5,891	do	35"×30"	640		24,000	4·87	28" Vent. pip.
1	1	62nd level No. 2 Do ...	5,757	do	35"×30"	550		20,000	4·2	28" Vent. pip.
1	1	64th level No. 3 Do ...	6,034	do	35"×30"	550		16,000	2·5	28" Vent. pip.
1	1	63rd level No. 4 Auxiliary Sink ...	5,891	do	35"×30"	550		20,000	5·05	28" Vent. pip.
1	1	Taylor's Nundydroog ...	Surface	do	55"×30"	360		36,000	2·5	30 sq. ft.
1	1	Taylor's Balaghat ...	Do	do	55"×40"	895		25,000	1·5	88 6 ,,
1	1	44th level Richards ...	3,821	do	20"×11"	1,450		8,200	5·0	18" Vent. Pip.

Underground Air Temperatures.

The deepest workings on the Kolar Gold Field are over 8,200 ft. vertically below field datum, the rock temperature at this horizon being about 134°F.

The following statements 'A' and 'B' show the air temperatures recorded in some of the important underground stations and at selected working places in the bottom levels of Champion Reef and Ooregum Mines, the two deepest in this field. Owing to the incidence of high wet bulb temperatures met with in some of the working places, the workmen are occasionally overcome by heat but they recover when removed to a well-ventilated place. These cases of "heat exhaustion" are different from those of "heat stroke" occurring in the Rand Mines and very rarely prove fatal. There were 23 cases of heat exhaustion during the year under report as against 22 in the previous year. Of these, 19 were due to excessive heat, one to non-acclimatisation and the rest to other causes.

A.—UNDERGROUND AIR TEMPERATURES—1937.

Field Datum is 2,967 feet above sea level (Madras).

Downcast							Upcast						
Names of Shafts and Stations	Vertical depth below Field Datum (feet)	Dry Bulb °F.	Wet Bulb °F.	Difference	Relative humidity per cent	Grains of water vapour per lb. of dry air	Names of Shafts and Stations	Vertical depth below Field Datum (feet)	Dry Bulb °F.	Wet Bulb °F.	Difference	Relative humidity per cent	Grains of water vapour per lb. of dry air
MYSORE GOLD MINING COMPANY, LIMITED.							MYSORE GOLD MINING COMPANY, LIMITED.						
Edgar's Shaft (100 feet below collar) ...	118	75·4	67·0	8·4	64·0	95·0	Rowse's Shaft, surface	...	82·8	82·0	...	100·0	189·0
Edgar's 51st level main haulage	3,706	89·7	76·0	13·7	53·0	107·0	Rowse's Auxiliary Shaft 57th level Fan Exhaust.	4,502	102·1	84·3	17·9	48·0	137·0
North Auxiliary Vertical Shaft 84th level plat.	6,980	110·4	87·9	22·5	41·0	136·0	Drive, 76th level S., Ribblesdale's No. 2 Auxiliary Shaft.	6,182	109·6	87·5	22·1	42·0	139 0
CHAMPION REEF GOLD MINES OF INDIA, LIMITED.							CHAMPION REEF GOLD MINES OF INDIA, LIMITED.						
Gifford's Shaft (200 feet below collar) ...	200	73·3	66·9	6·4	72·0	97·8	Rowse's Shaft, 41st level Fan Exhaust ...	3,763	95·5	86·5	9·0	69·0	169 0
Heathcote Shaft, 70th level plat	6,580	103·7	83·3	20·4	42·0	115·2	Glen's Shaft 59th level Fan Exhaust ..	5,513	105·8	87 8	18·0	49·0	148·8
Heathcote Shaft, 82nd level plat	7,820	114·9	89·0	25·9	35·0	130·2							
OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.							OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.						
Bullen's Vertical Shaft collar	106	75·4	68·1	7·3	68·0	101·2	Circular Shaft Collar	96	82·6	75·7	6·9	72·0	135·9
Bullen's Incline 42nd level Plat	5,812	92·9	76·5	16·4	46·0	103·2	Drive, 60th level S., Auxiliary Shaft ..	5,529	108·0	83·3	19·7	43 0	126·1
Bullen's Incline 85th level crosscut ...	7,933	111·9	88·6	23·3	38·0	132·9	Drive, 73rd level N., Auxiliary Shaft Fan Exhaust.	6,729	115·1	89·2	25·9	36·0	137·4
Auxiliary Shaft 86th level crosscut ...	8,028	115·1	90·0	25·1	37·0	135·3	Drive 76th level S., Auxiliary Shaft, Fan Exhaust.	7,025	117·4	91·2	26·2	36·0	148·8
NUNDYDROOG MINES, LIMITED.							NUNDYDROOG MINES, LIMITED.						
Haulage Drive 48th level N., Henry Shaft ...	1,199	93·5	77·0	16·5	47·0	106·8	Richards' Shaft 2,800 ft. level crosscut ...	2,025	87·2	79·6	7·6	71·4	146·6
No. 1 Auxiliary Shaft 57th level crosscut,	5,042	99·2	81·7	17·5	46·8	123·7	Taylor's Shaft, 2,900 ft. level crosscut ...	2,523	92·9	80·8	12·1	59·2	140·7
No. 2 do 61st do ...	5,622	101·3	81·8	19·5	42·9	116.7	Drive 44th level S., Richards' Shaft .	3,821	100·7	84·1	16·6	49·9	142·1
No. 3 do 64th do ...	5,034	105·3	85·8	19·5	44·9	136·1	Drive 48th level, No. 1 Auxiliary Shaft, Fan Exhaust.	4,184	100·6	89·1	11·5	63·5	180·7

B.—COMPARATIVE STATEMENT OF TEMPERATURES AND RELATIVE HUMIDITY OF ATMOSPHERE IN DEEP LEVELS AND SOME OF THE WORKING PLACES THEREIN.

(Field Datum is 2,967·21 feet above sea level, Madras.)

Locality						Development Points and Stopes					
Horizon	Vertical depth below Field Datum (feet)	Dry Bulb °F.	Wet Bulb °F.	Difference	Relative Humidity per cent (Approximate)	Place of work	Dry Bulb °F.	Wet Bulb °F	Difference	Relative Humidity per cent (Approximate)	Remarks
CHAMPION REEF GOLD MINES OF INDIA, LIMITED.						CHAMPION REEF GOLD MINES OF INDIA, LIMITED.					
Plat, 78th level, South Development Winze ...	7,380	108·0	88·5	19·5	44·0	Stope above 78th level S., South Development Winze.	119·0	92·5	19·5	46·0	Building a masonry pack-wall in the stope 20 ft. above the level.
Drive, 80th level, S., North Main Winze ...	7,600	111·0	93·0	18·0	49·0	Stope above 80th level S., North Main Winze.	114·5	92·5	22·0	44·0	Working face 42 ft. above level; one machine drilling.
Plat, 80th level. South Development Winze ...	7,600	111·5	89·0	22·5	40·0	Stope above 80th level S., South Development Winze.	113·0	92·0	21·0	44·5	Stope 20 ft. above level; clearing down stuff.
Plat, 80th level, Heathcote Shaft ...	7,600	112·5	89·0	23·5	38·0	Drive, 80th level S., Heathcote Shaft	109·0	94·0	15·0	57·0	Near the South boundary; fixing machine bar; air pipe and fan pipe blowing.
Drive, 81st level, N., North Main Winze ..	7,700	111·0	96·0	15·0	56·0	Drive, 81st level S., North Main Winze	112·0	97·0	15·0	57·0	Drive on west lode; fixing machine bar.
Drive, 82nd level, S., Heathcote Shaft ...	7,800	110·5	94·0	16·5	54·0	Crosscut W., 82nd level Heathcote Shaft ...	114·0	91·0	23·0	41·0	
Drive. 84th level, N., from No. 1 winze below 82nd level N., Heathcote Shaft.	8,000	113·0	94·5	18·5	49·0	Drive, 84th level S., from the bottom of No. 1 Winze.	111·0	94·0	17·0	52·0	Drive advanced 50 ft. from winze; one big machine drilling.
OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.						OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.					
Plat, 70th level Auxiliary Shaft ...	6,450	109·0	91·0	18·0	49·0	Stope below the 70th level, N., Auxiliary Shaft.	113·0	95·0	18·0	50·0	Square end 30 feet deep
Plat, 78th level Auxiliary Shaft ...	7,233	110·0	92·0	18·0	49·0	Stope below 78th level S., Auxiliary Shaft ...	116·0	96·0	20·0	46·0	Square end 12 feet deep; chute full; stope on west reef.
End of crosscut E., 85th level, Bullen's Incline Shaft.	7,928	119·5	85·0	34·5	25·0	Drive, 85th level, S., Bullen's Incline Shaft.	118·5	86·0	32·5	27·0	
Plat, 85th level, Auxiliary Shaft ...	7,928	112·0	86·0	26·0	33·0	Drive, 85th level S., Auxiliary Shaft ...	115·0	87·5	27·5	31·0	Drive on central ore shoot
Drive, 87th level N., Auxiliary Shaft ...	8,128	119·0	88·5	24·5	36·0	Drive, 87th level S., Auxiliary Shaft ...	114·5	91·0	23·5	41·0	Drive on west reef; fixing machine bar; 18" dia. fan pipe blowing.
Drive, 88th level from bottom of No 3 winze below 85, S, Bullen's Incline.	8,228	115·5	96·0	19·5	47·0	Crosscut West, 88th level, from No 3 winze.	120.0	93·5	26·5	38·0	Crosscut put out 145 ft.; clearing stuff; fan pipe blowing.
Crosscut W., 88th level, Auxiliary Shaft .	8,228	114·0	89·5	24·5	37·0	Sink of Auxiliary Shaft below the 88th level.	112·5	88·0	24·5	36·0	Sink 58 feet below the level; mucking in progress; fan pipe blowing.

N.B.—The annual mean values of dry and wet bulb temperatures on surface were 75·7°F. and 66·7°F., the corresponding temperatures for the previous year being 76·4°F. and 66·7°F. respectively.

VI. Notes on Mines.

Mysore Mine.

As in the previous year, a large percentage of the total tonnage of ore crushed was obtained from the reclaimed areas in the upper levels. Though there was no appreciable variation in the grade or tonnage treated during the year 1937, the steady increase in the production which commenced in the year 1932 is being maintained. During the year 207,381 tons of ore milled and treated yielded 96,697 ozs. of fine gold and in addition 1,000 ozs. were obtained from scalings and 400 ozs. from the dismantling of the old treatment plant, making a total of 98,097 ozs. showing a slight increase of 1706 ozs. over that of last year. The total realisation amounted to £683,480 compared with £677,838 and a dividend of 2sh. 9d. per share or 27½ per cent which is the same as that of the last year was distributed.

Development.—Exploratory work carried out to prove the continuity of the ore shoots discovered in the lower levels of the mine last year has resulted in exposing considerable lengths of payable reef in spite of the disturbances caused by pegmatitic intrusions. A winze sunk on the reef between Edgar's Sub-Vertical and North Auxiliary Vertical Shafts in the 84th level has exposed payable reef for a depth of over 200 ft. Driving along this reef at the 85th and 86th levels is being carried on at present to prove its length. Levels have been commenced from the several shafts at the horizon of the 88th level and the lode-channels met with are indicative of a strong reef. This exploratory work at the deepest horizon of the mine is being watched with interest.

In addition to the new discoveries at the bottom levels of the mine, the upper levels which are being opened up have been making substantial contributions to the ore reserves. It is particularly interesting to note, that large bodies of ore of great width and good values have been found in the upper levels of McTaggart's Incline, Rowses' and Plummer's Shafts. Exploration of the top levels of Tennant's Section has been commenced between 180 and 600 ft. levels and it is hoped that a considerable tonnage of payable ore will be made available shortly.

The ore reserves at the end of the year were estimated at 449,000 tons showing an increase of 9,000 tons.

Shaft Sinking.—Edgar's Sub-Vertical Shaft, the most important of all the secondary Shafts reached the 89th level and the equipment of the shaft has been completed from the 51st to the 88th level. Electrically operated single decked cages have been put into commission as a temporary measure and truck hoisting is being carried on. Sinking below the 88th level is in progress at present.

The North and South Auxiliary Vertical Shafts were also sunk to the 88th and 89th levels respectively and equipped to the former level.

Ventilation.—No change was effected during the year in the ventilation of the mine. The work of smooth lining of the up-cast airways was continued during the year. At the 84th level communication was established during the year between Edgar's Sub-Vertical and South Auxiliary Vertical Shafts resulting in the passage of 15,100 cubic ft. of air per minute in this level and through communication has also been established between the North Auxiliary Vertical Shaft and Edgar's Sub-Vertical Shaft at the 88th level with resultant improvement in ventilation at the bottom of the mine. Auxiliary fans and blowers are used to deliver an adequate quantity of fresh air to the development ends and sinks.

General.

McTaggart's Incline Shaft, which is a compound shaft, with a vertical portion from surface for 120 ft. is being converted into a simple incline shaft by sinking a new incline from surface to communicate with the bottom of the vertical portion. This arrangement when completed will remove the existing bend in the shaft which is causing excessive wear of the hoisting rope and will greatly facilitate the hoisting of men and material.

The deepest working point in the mine was the sink of North Auxiliary Vertical Shaft, which was 7,653 ft. below Field datum.

An interesting change in the metallurgical practice is being effected in the concentration plant to recover a large quantity of free gold so that it can be smelted into a bar direct without the necessity of amalgamation.

A plant for treating timber with metallic salts for preserving it, has been erected in the compound of Edgar's Shaft.

The accident prevention propaganda is being carried on vigorously and "safety first" lectures are held regularly. Long trousers, knee-pads, goggles and other protective appliances are being freely used by the workmen. In the "First-Aid Examination" held by the Medical Officer, 35 workmen were declared as having passed during the year.

The erection of a bath room at the top of Edgar's Shaft where 20 men can bathe in privacy simultaneously, one in each cubicle, is nearing completion and a continuous supply of warm water will be provided.

Champion Reef Mine.

The most important achievement of the year has been the completion of the extension of Gifford Shaft from the 42nd to the 70th level and thereby making it one of the deepest primary Shafts in the World with a vertical depth of 6,556 ft. below surface. The equipment of the new portion of the shaft with 96 lb. steel rail guides for the two cages has been commenced and the 70th level plat is being laid out for truck hoisting. On surface, a large engine house for the new electric winder has been built and the foundation for the hoist has been laid. As all the preparations for the erection of the winder have been completed, the work will be put in hand as soon as the winder parts are delivered on the mine. The head-gear is being reinforced and the new double deck cages are being made in the work shops.

The highly satisfactory development work during the year has resulted in increasing the ore reserves by 25,456 tons, making a total of 496,605 tons against 471,449 during the previous year. As anticipated last year, considerable lengths of payable ore have been opened up both in the N. and S. sections of the mine. During the year, the Glen ore shoot at the 82nd level was proved to a considerable distance with satisfactory widths and values. A number of winzes that are being sunk on this reef to the 84th level, have disclosed its continuity in depth and at the same time, the widths and values do not show any appreciable decrease In the North Section, the development work on the folds of the reef at the several levels between the 76th and the 81st level has disclosed the existence of a very wide payable reef. The 80th level N. was driven to the boundry and holed into the 82nd level of the Ooregum Mine to provide an emergency exit to both Mines.

Reclamation work carried out in the upper levels of the mine has resulted in exposing certain pillars of ore which could be safely extracted now. The opening up of No. 1 level S. Glen's Primary Shaft has given access to certain blocks of ore lying between the old workings and the back of No. 2 level. Preparations have been completed for stoping Ribblesdale's Shaft pillar at the 800 ft. level.

The year's operations resulted in the production of 70,014 oz. of gold from 151,050 tons of ore milled and the total realisations amounted to £487,812. A dividend of 4s. 3d. per share or 42½ per cent was distributed as against 45 per cent for the previous year.

Ventilation — The work of clearing Glen's Primary Shaft at various levels and smooth lining the portions opened up, has been in progress throughout the year. The top portion of Ribblesdale's Shaft has also been cleared and smooth lined during the year from surface to the 5th level. Three electrically driven Sirroco fans with a capacity of 10,000 cubic ft. per minute have been installed at the 80th, the 81st and the 82nd levels to improve the circulation of air at the bottom levels.

The average quantity of downcast air entering the mine was 111,077 cubic ft. per minute with a temperature of 74°F. dry and 67°F. wet. At the 82nd level, Heathcote Shaft—the lowest level in this shaft—the downcast volume of air averaged 10,333 cubic ft. per minute and the average temperatures were 111°F. dry and 83°F. wet.

General.—The deepest working point in the mine is the 81th level plat Heathcote Shaft, 8,029 ft. vertically below field datum.

There has been no alteration in the method of supporting ground as granite packwalls have proved to be satisfactory. During the year 31,332 tons of granite were lowered for this purpose.

The accident prevention campaign and welfare work is being carried on vigorously and the workmen have begun to appreciate the benefits derived from these two schemes.

Ooregum Mine.

The erection of the Ammonia Compressor type cooling plant described in last year's report has been completed and the necessary alterations for reversing the existing ventilation circuits underground are being effected expeditiously to put the plant into commission early.

In spite of the exhaustion in August 1937 of the old tailings dumps which were contributing about 1,000 ozs. every month, the average monthly production was maintained by increasing the tonnage of current ore milled. During the year 50,776 ozs. of fine gold were obtained from 155,338 tons of current ore and 138,624 tons of tailings as compared with 51,159 ozs. produced during the previous year from 147,282 tons of current ore and 249,274 tons of old tailings. The total realisations amounted to £353,756 and a dividend of 1sh. 6d. per share or 15 per cent on the preference and 6d. per share or 5 per cent on ordinary shares as against 17½ per cent and 7½ per cent respectively last year were distributed.

Though there has been a slight increase in the assay value of the ore from 5·44 to 5·64, the grade still remains to be the lowest on the Field.

Development.—The west reef and the Central ore-shoot which were struck at the various horizons between the 80th and the 84th levels in the southern section of the mine during the last year have been proved in depth and it is gratifying to note that considerable lengths of good widths and values have been opened up. The development so far carried out on this reef at the 84th and 85th levels has been distinctly encouraging, and the 86th level is being explored at present. The central ore shoot which runs parallel to the west reef in these levels did not disclose the same encouraging features though some rich patches were met with occasionally.

The development work carried out in Bullen's and Oakley's Sections at the 84th, 85th and 86th levels did not disclose anything of value as the area explored was still found to have been disturbed by pegmatitic intrusions.

Diamond drilling at selected points at the 81st and the 84th levels in Auxiliary Section and at the 82nd level in Bullen's Section was also carried out during the year but beyond obtaining certain geological data nothing of value was discovered.

Reclamation work carried out in the upper levels in Bullen's Section at the 28th level and at the 17th level in Oakley's section has resulted in opening up certain blocks of payable ore which had become inaccessible.

The sinking of Bullen's Incline and Auxiliary Shafts were continued during the year and they reached vertical depths of 8,290 ft. and 8,251 ft. respectively, below Field Datum and these are the deepest working points in this Field. The 88th level plats have been completed in both these shafts.

The reserves of ore at the 31st December 1937 were estimated at 233,712 tons showing an increase of 14,088 tons over that of last year.

General. -The General Welfare and Accident Prevention committees are working satisfactorily with continued benefits to the workmen. A large number of old type of workmen's houses have been replaced by dwellings of better design providing greater accommodation.

Nundydroog Mine.

Though the tonnage of current ore milled during the year was increased by 13,454 tons, the yield was decreased by 4,185 ozs. owing to a slight reduction in the grade of ore from 9·50 dwt. to 8·65 dwt. During the year 253,700 tons of current ore milled produced 107,311 ozs. of gold and 101,300 tons of old tailings re-treated yielded 4,640 ozs. making a total of 111,951 ozs. as compared with the total recovery of 114,114 ozs. in 1936. The realisations amounted to £779,810 and the dividend distributed was 6sh. 6d. per share equal to 65 per cent as compared with 72½ per cent in the previous year, showing a fall of 7½ per cent.

Development.—Though no new discovery of any importance was made in Kennedy's and Oriental Sections during the year, the development carried out at the 64th and the 65th levels exposed considerable lengths of payable reef. The lode widths gradually began to diminish in depth but values increased with the decrease in width. The driving of the 64th level has been completed but the 65th level has only been partly opened up.

At the 65th level in Kennedy's Section, a short length of payable reef was opened up close to No. 2 Auxiliary Shaft and exploratory work carried out in depth on this reef, proved it to be of greater length at the 66th level with increased values but indications of pegmatitic intrusions have begun to appear causing uncertainty as to its continuity.

The most satisfactory results were obtained in Taylor's Section where driving on the folds exposed good lengths of high grade ore. At the 54th level, the drive on the Eastern link of the fold exposed reef of over 2 ft. in width and of high assay value. Between the 63rd and the 66th levels S. No. 3 Auxiliary Shaft a large body of payable ore of good width has been opened up. At the 67th level, the shaft crosscut has intersected the reef and the result of development work at this horizon is being watched with interest.

The sinking of all the Auxiliary Shafts except No. 4 was continued during the year and the deepest working point in the mine was the sink of No. 3 Auxiliary Shaft which was 6,869 ft. below Field Datum.

The ore reserves at the 31st December 1937 were estimated at 588,126 tons, an increase of 6,581 tons.

Ventilation.—At the 48th level-North, the new 75" propeller fan was put into commission during the latter part of the year resulting in improvement in the ventilation of the north section of the mine. The old 55" "Sirocco" fan is retained in its position to serve as a standby in case of necessity. Ogle's Main Winze in the north section of the mine has been completely stripped to form an effective upcast air way.

General.—The Nine Reefs Mine, having been worked out, was closed down but work is being carried on at the Road Block Mine which has been dewatered to the 500 ft. level. Arrangements are also in progress to open up an old shaft in the old Golconda Block which has now become part of this mine.

Certain additions and alterations were made in the reduction works to improve the efficiency of the plant. Power transmission through shafting is being gradually eliminated and individual unit drives are taking their places.

The acid plant has been moved to the Extractor House and the melting room has been enlarged and the furnaces have been re-arranged resulting in a substantial saving in time.

VII. Electric Power Supply.

(a) *Cauvery System.*

The following statement kindly furnished by the Chief Electrical Engineer to Government, shows the number of motors in service and the power consumed by the different mines during the calendar year 1937 :—

Name of Mine	Number of motors in service	Nominal H. P.	Rated H. P.	Average constant H. P. absorbed	Annual consumption in B. T U.
Mysore ...	57	5,046·0	4,256	3,430	22,419,597
Champion Reef ...	27	5,250·0	4,869	3,597	23,510,050
Ooregum ...	44	5,156·0	4,033	2,898	18,942,100
Nundydroog ...	44	6,794·5	5,424	3,986	26,049,800
Total ...	172	22,246·5	18,582	13,911	90,921,547

(b) Kolar Mines Power Station, Limited.

The following notes have been kindly furnished by Mr. E. A. Eborall, Ag. Chief Electrical Engineer, for the year ended 30th June 1938.

At the 30th June last, 357 motors with an aggregate horse-power of 30,266·625 were connected to this company's distribution systems and of that number, 110 motors aggregating 21,849·250 H. P. were operating Winding Engines and Hoists, while the remainder, namely 247 motors with a total of 8,417·375 H. P. were being used to drive intermittent loads of other classes.

The consumption of power for different purposes, during the year is given in Board of Trade Units:—

Intermittent Power.	*Hoisting.*	*Lighting.*	*Refrigerator.*	*Total Units sold.*
10,315,219	15,540,293	901,414	22,305	26,779,231

The rates prevailing at 30th June 1938 were as follows:—

Intermittent Power	0·4 d.
Hoisting	0·55 d.
Lighting	4·5 d.
Refrigerator	0·75 d.

The horse-power of 184 motors which were connected to the Cauvery System at June 30th totalled 18,617 H. P. at Government ratings, or 23,867 at Manufacturers' ratings. Adding the latter figure to the figure for the Kolar Mines Power Station, Limited, a total of 54,133·625 is arrived at, as the total horse-power of motors in service on the Mines at 30th June 1938.

No stoppages owing to scarcity of water were experienced during the period in question.

COMPARATIVE STATEMENT OF POWER CONSUMPTION.

Official year	Cauvery Power		Kolar Mines Power		Total number of motors in use	Total consumption in B. T. U. from both stations
	Number of motors in use	Annual consumption in B. T. U.	Number of motors in use	Annual consumption in B. T. U.		
1924–25 ...	165	95,533,550	164	7,662,490	329	103,196,040
1925–26 ...	166	90,421,604	172	8,262,284	338	98,683,888
1926–27 ...	149	85,214,687	198	11,149,016	347	96,363,703
1927–28 ...	143	97,190,966	219	13,968,284	362	111,159,250
1928–29 ...	151	84,109,600	237	14,557,406	388	98,667,006
1929–30 ...	156	80,945,652	260	15,071,035	416	96,016,687
1930–31 ...	158	82,646,288	276	18,405,923	434	101,052,211
1931–32 ...	161	75,766,200	273	18,501,739	434	94,267,939
1932–33 ...	163	76,133,500	270	19,364,667	433	95,498,167
1933–34 ...	160	81,360,300	264	21,310,574	424	102,670,874
1934–35 ...	161	87,954,150	303	21,016,580	454	108,970,730
1935–36 ...	160	87,335,710	321	22,874,806	481	110,210,516
1936–37 ...	165	89,392,866	343	25,380,309	508	114,773,175
1937–38 ...	174	91,978,738	357	26,779,231	531	118,757,969

C.—CHROMITE, MANGANESE, MAGNESITE, COPPER, KAOLIN, SOAPSTONE AND SLATESTONE.

Chromite.

The number of mining leases current for this mineral during the year was 10 as in the previous year, including three of Messrs. The Tata Iron and Steel Company, Limited, which are held both for chromite and magnesite. The activity on the blocks was not so brisk as in the previous year. The following statement shows the details of work done :—

Name of Block	District	Number of M. L. or P. L.	Output	Quantity removed from block	Royalty payable
			Tons	Tons	Rs. a. p.
1. Lakshmidevarahalli	Hassan ...	P. L. 786	418	...	...
2. Sinduvalli ...	Mysore ...	M. L. 147	8,804·33	8,494·61	6,371 0 0
3. Chikkattur ...	Do ...	M. L. 155	88·31	88·31	88 5 0
4. Bhaktarahalli ...	Hassan ...	M. L. 158	2,270	*3,831·25	2,873 7 0
5. Chikkonhalli ...	Do ...	M. L. 159	2,850	1,569	1,176 12 0
6. Jambur ...	Do ...	M. L. 160	620	563·25	563 4 0
7. Sunkadahalli ...	Do ...	M. L. 172	31	...	...
8. Pensamudra ...	Do ...	M. L. 174	1,314	...	...
Total ...			16,395·64	14,546·42	11,072 12 0

*Excess removal from stocks.

Manganese.

Three mining leases and 20 prospecting licenses were current for this mineral as against three mining leases and 16 prospecting licenses during the previous year. Though a good amount of ore was won, yet the quantity exported is small as could be seen from the following table :—

Name of Block	District	Number of M. L. or P. L.	Output	Quantity removed from block	Royalty payable
			Tons	Tons	Rs. a. p.
1. Honnebagi ...	Tumkur ...	P. L. 757	...	*18	11 4 0
2. Nalenkoppa ..	Shimoga ...	P. L. 797	700	...	...
3. Kumsi ...	Do ...	P. L. 801	240	...	...
4. Keshapur ...	Chitaldrug...	P. L. 803	229	*332·5	207 13 0
5. Do ..	Do ...	P. L. 815	...	27	16 14 0
6. Kodihalli ...	Tumkur ...	P. L. 828	1,600	...	...
7. Sivasandra ...	Do ...	P. L. 853	750	12	7 8 0
8. Soudenhalli ...	Do ...	P. L. 855	925	...	...
9. Hullikatte ...	Chitaldrug...	M. L. 171	1,242·95	...	...
10. Mahadevpur ...	Do ...	M. L. 173	258·35	...	...
11. Keshapur ...	Do ...	M. L. 176	860·70	357	223 2 0
Total ...			6,806·00	746·5	466 9 0

*Excess removal from stocks.

Magnesite.

As in the previous year only the Dodkanya block was worked, out of the three mining leases held for this mineral by Messrs. The Tata Iron and Steel Company, Limited, 2,303·85 tons were won and 2,710·25 tons removed from the block, the

excess removal being from stocks held. The royalty realised was Rs. 1,784-10-0. There was also a small output of 10 tons from a block in the Gurur village in Mysore Taluk held under a prospecting license issued for the mineral during the year.

Copper.

About 15 tons of copper ore were won from a prospecting block in the Swonhalli village, Nanjangud Taluk, Mysore District: but there was no removal.

Kaolin.

From the two mining leases held for this mineral by the Kolar Brickmaking Company, Limited, a quantity of 2,838 tons was won and removed. The royalty paid was Rs. 2,451-11-0.

Of the prospecting licenses held for this mineral, work was carried out on eight blocks. Out of 5,786¾ tons won and removed from these blocks, a quantity of 5,641 tons were mined and removed by the Mysore Stoneware Pipes and Potteries, Limited. Owing to certain concessions granted to this Company by Government in the matter of royalty, the amount realised on the above removal including the removal from other prospecting blocks, came to Rs. 466-4-0.

Soapstone.

A total quantity of 91 tons was won and removed from the three collecting licenses held for this mineral in the Beerasandra village, Tiptur Taluk, Tumkur District. The royalty realised was Rs. 161-4-0.

Slatestone.

A small quantity of eight tons was won and removed from the prospecting license held for this mineral in the Hatyal village, Tiptur Taluk, Tumkur District. The royalty realised was Rs. 10.

Demand, Collection and Balance Statement of Mining Revenue and Geological Receipts, other than Royalty on Gold for the year 1937-38.

Items	Opening balance	Demand	Total	Collection	Closing balance
	Rs. a.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. Royalty on other minerals.	57 15	21,642 10 0	21,700 9 0	21,550 6 0	150 3 0
2. Rent on mining and other prospecting lands.	...	19,411 14 3	19,411 14 3	19,411 14 3	...
3. Other receipts ...	...	1,810 0 0	1,810 0 0	1,810 0 0	..
4. Geological receipts ...	...	5,515 7 7	5,515 7 7	5,515 7 7	...
5. By sale of chromite and magnesite ores.	...	47,948 12 0	47,948 12 0	47,948 12 0	...
Total Gross Receipts ...	57 15	96,328 11 10	96,386 10 10	96,236 7 10	150 3 0

The above information is extracted from particulars kindly furnished by the Director, Mysore Geological Department.

Figures relating to output of chromite, manganese iron-ore, limestone, etc., during the calendar year 1937 in the areas worked by the Government Agency are contained in Table 4 appended to this report.

D. OFFICIAL DUTIES—1937-38.

Constitution of the Department.—The constitution of the Department is as under—

Chief Inspector of Mines and Explosives in Mysore ...	...	Mr. K. Duraiswamier, B.A., A.I.M.M.
Inspector of Mines (Ag.)	...	Mr. V. Narayana Rau, B.A.
Assistant Inspector of Mines (Ag.)	...	Mr. R. S. Batni, B.A., A.I.S.M.
Junior Inspector of Mines	...	Vacant.
Probationers	...	Messrs. S. R. Prasad, M.Sc. and M. Subramanyam, B.Sc. (Hons.)

Administration.—I continued to hold charge of the Department throughout the year and was confirmed in my appointment as Chief Inspector of Mines and Explosives in Mysore, with effect from 26th March 1938 by Government Order No. 148-49—C. B. 18-38-1, dated 13th July 1938.

Changes.—The following promotions of officers of the Department were ordered with effect from 26th March 1937, in Government Notification No. D. 2510—Geol. 30-37-2, dated 25th September 1937 :—

1. Mr. V. Narayana Rau, B.A. ... Assistant Inspector of Mines to act as Inspector of Mines
2. Mr. J. P. David, B.Sc. ... Junior Inspector of Mines, to act as Assistant Inspector of Mines.
3. Mr. R. S. Batni, B.A., A.I.S.M. Junior Inspector of Mines (*sub pro tem*) to act as Assistant Inspector of Mines, *vice* No. 2 on Foreign Service.

Loan of Services.—The loan of the services of Mr. J. P. David, Acting Assistant Inspector of Mines to Jaipur State for one year referred to in last year's report was extended, at the request of the Jaipur Government, by another two years in G. O. No. D. 8476-77—Geol. 77-37-2, dated 4th May 1938.

Probationers.—Government were pleased to appoint Messrs. S. R. Prasad, M.Sc. and M. Subramanyam, B.Sc. (Hons.) as Probationers for two years in their Order No. D. 4231-33—Geol. 58-36-7, dated 10th December 1937 and they reported themselves for duty on 3rd January 1938 and have been undergoing training since.

Office Inspection.

The annual inspection of the office was carried out in May 1938 and everything was found to be in order.

Statistics of Business.

During the year 3,146 letters were received and 2,790 despatched, compared with 3,157 aud 3,093 respectively in the previous year.

Stores and Stock-taking.

The stock registers relating to furniture, library and other articles have been written up-to-date. These were checked as required by Codal Rules and found correct.

Inspection of Mines—Kolar Gold Field.

The inspection of Mines on the Kolar Gold Field entails great physical strain under extremely trying conditions owing to the increasing depths of these Mines—the deepest working point being 8,290 ft. vertically below field datum in the Ooregum Mine. All the Mines were systematically inspected during the year and many special inspections have been carried out both on surface and underground in

connection with accidents. There were no serious defects or lapses of the Mining Rules noticed during these inspections and the Mining authorities have always been ready and willing to rectify immediately any defects brought to their notice.

In addition to the investigation of all fatal and serious accidents, enquiries were held into those classed as trivial or non-mining in which breach of the Mining rules had or suspected to have taken place. As a result of these enquiries the persons responsible were suitably punished.

Examination of Candidates for Certificates under the Mining Rules.

Under Rules 15 and 16, Mysore Mining Rules, examinations for the grant of certificates of mestris, blasters and engine drivers are conducted by the Department once a week. In all 903 candidates were examined during the year.

The following statement shows the number of candidates examined and certificates issued up to the end of June 1938:—

Year	Mestris		Blasters		Engine Drivers			
					First Class		Second Class	
	Number examined	Number passed	Number examined	Number passed	Number examined	Number passed	Number examined	Number passed
Total up to the end of June 1937.	15,470	15,202	10,294	9,509	495	495	498	498
For 1937-38 ...	533	533	255	203	20	20	95 (a)	95 (a)
Total up to the end of June 1938.	16,003	15,735	10,549	9,712	515	515	593	593

(a) Includes 5 loco drivers.

On application and after verification 25 duplicate tickets (discs) were issued to mestris who had lost the originals.

The fees realised during the year from candidates who appeared for the above examinations, issue of duplicate discs and fees levied for testing lightning conductors attached to Explosives Magazines and Petroleum Installations, etc., amounted to Rs. 3,626-9-6 as against Rs. 3,069-13-3 in the previous year.

Inspection of Mining Accounts.

In pursuance of the Standing Orders of Government the annual inspection of the accounts of one of the Gold Mining Companies, *viz.*, the Nundydroog Mines, Limited was carried out on the 25th July 1938 by the Comptroller to Government in association with the Chief Inspector of Mines and Explosives in Mysore. The registers and other accounts pertaining to the production of gold for the months of July and December 1937 were examined and found to agree. The corresponding entries in the cash book in respect of the amounts realised by the sale of gold produced in these months were also checked and found to be correct. The vouchers and other documents in support of the charges in the Royalty returns were verified with the original communications of the Mint Master and the National Bank of India, Limited, Bombay, with their copies received in the Comptroller's Office and everything was found to be in order.

The Resident Auditor, Messrs. John Taylor & Sons' Committee and the Company's Accountant rendered necessary assistance in carrying out the test audit.

Inspection of Mines—Outside Kolar Gold Field.

The following Mining Blocks outside the Kolar Gold Field were inspected during the year :—

Mysore District.—				
Shinduvalli	...	Chrome	...	Mining Lease No. 147.
Talur	...	Do	...	Government area.
Urdabur	...	Do	...	Do
Dodkanya	...	Magnesite	...	Mining Lease No. 150.
Hassan District.—				
Pensamudra	...	Chrome	...	Mining Lease No. 174.
Sunkadahalli	...	Do	...	Do 172.
Bhaktharhalli	...	Do	...	Do 158.
Byrapur	...	Do	...	Government area.
Chikkonahalli	...	Do	...	Mining Lease No. 159.
Jambur	...	Do	...	Do 160.
Kadur District.—				
Kemmangundi	...	Iron	...	Government area.
Shimoga District.—				
Bhadigund	...	Limestone	...	Government area.
Chitaldrug District.—				
Keshapur	...	Manganese	...	Mining Lease No. 176.
Mahadevapur	...	Do	...	Do 173.
Kolar District.—				
Manighatta	...	Gold	...	Special Prospecting License.

Except Sinduvalli Mine in Mysore District all the others are worked on the "open cast" system. No serious lapses of the Mining Rules were noticed during these inspections.

Shinduvalli Mine.—This mine which has attained a vertical depth of 492 ft. below surface produced during the calendar year 1937, 10,196 tons of chrome ore. Development work carried out in the bottom levels of the mine exposed a reef 9" wide but further exploratory work had to be temporarily suspended on account of the influx of water.

Concentration Plant.—Arrangements to instal a tube mill and four concentrating tables in open circuit to concentrate the powdery ore mixed with "kharab" (waste) lying near the several shafts, were completed towards the end of the year. The plant is proposed to be worked by a 75 H. P. electric motor. It is expected to produce a daily output of 15 to 20 tons of concentrates containing 51 per cent Cr_2O_3.

Keshapur Mine.—This mine, which is worked on the opencast system produced during the year 1,012 tons of manganese ore.

Concentration Plant.—As mentioned in last year's report this plant consisting of two wilfley tables, a mechanical screen, a pump and a jaw crusher started operations towards the end of the year. After producing a small quantity of 30 mesh pyrolusite averaging 85% Mn G_2 the operation of the plant has been suspended temporarily.

Base Minerals.

Of the base Minerals produced in the State, the most important ores are Chromite, Manganese and Iron Ores. Exports of Chrome and Manganese ores showed an increase on account of favourable foreign market conditions. The demand for Chrome remained more or less steady during the year, but sudden variations characterised the market conditions for mangenese.

The Mysore Iron and Steel Works mined as usual large quantities of iron ore and limestone for their own use.

The following table shows the production in short tons of the important base minerals during the years 1936 and 1937 :—

	1936 Tons	1937 Tons
Manganese	1,801·63	6,213·85
Chromite	23,906·07	29,567·96
Magnesite	2,801·85	2,667·06
Kaolin	2,805·95	4,718·42
Dolomite	3,454·08	3,693·76
Iron Ore	46,969·44	36,377·60
Limestone	2,991·52	7,029·12
Graphite	169·12	358·96

Further details regarding base minerals are found in Table 4 appended to this report.

II. Labour Employed.

The total number of persons employed in the Mining Industry in 1937 was 26,666 as against 24,581 in the previous year.

Of this number, 24,239 were employed in gold mining against 22,973 in 1936; 620 on manganese against 174; 1,102 on chrome against 1,051; 195 on iron ore against 195; 30 on dolomite against 30; 131 on kaolin against 16; 20 on mica against 4; 4 on slatestone against 7; 28 on felspar against 23; 60 on limestone against 44; 27 on soapstone against 17; 16 on quartzite against 26; 61 on crude graphite against 24; 110 on magnesite, 19 on Hiriyur slabs and 4 on copper.

Of the 24,239 persons employed in gold mining, 345 were Europeans, 541 Anglo-Indians and 23,353 Indians, a total of 15, 486 being employed below ground and 8,753 on surface. Of the latter, 984 were women and 192 children under 12 years of age.

There was no change in the general working hours underground or on surface.

The following statement gives the average number of hours worked and the average earnings per person per week in 1937 in respect of labour employed by the gold mining companies and their allied departments on the Kolar Gold Field :—

Average number of hours worked per person per week		Average weekly earnings per person	
Underground	Surface	Skilled	Unskilled
47	56	Rs. a. p. 8 2 2	Rs. a. p. 3 12 0

Except for two strikes of an insignificant nature in Nundydroog Mine which terminated on the same day, the relationship between the employer and the employed has been cordial and no shortage of labour has been felt at any time.

Health and Welfare.

Improvement of the living conditions and the provision of social amenities for the workmen are being attended to by the Central and Branch Welfare Committees assisted by a Special Welfare Officer. The old huts are being gradually replaced by larger ones and concrete houses are being built in one mine as these structures are more conducive to cleanliness. The cooly lines are getting cleaner every year and the workmen have begun to realise the beneficial effects of sanitary surroundings. The cattle owned by the workmen are housed in separate sheds away from their dwellings with the result that the cooly lines appear cleaner.

Night schools continued to work satisfactorily during the year in addition to the usual day schools in the lines. Drama Halls built in the lines are made use of by the workmen for amateur acting and performances are given almost every

Saturday night. The travelling cinema is very popular and lantern lectures on Health, Hygiene and Temperance are given. The establishment of maternity homes in charge of qualified midwives has been a great benefit and all confinements now take place in these clinics.

The Scout movement is very popular among the younger workmen and their assistance at Sports, Receptions, etc. is of great value. Playgrounds and Parks continue to be used with enthusiasm.

As usual the annual Inter Mine Sports were held on the 5th of March 1938 and the shield presented by Mrs. Sydney Taylor was won by the Nundydroog Mine. The hand-drilling competition which was one of the events attracted a large number of competitors.

It is pleasing to be able to record that the Welfare work which is being carried on for the last few years has resulted in improving the living conditions of the workmen who have begun to appreciate the benefits of clean and healthy surroundings.

Rescue Station.

The following notes kindly furnished by Messrs. John Taylor & Sons' Committee on the organisation and working of the Rescue Station on the Kolar Gold Field will be of interest:—

A Central Mine Rescue Station has been established on the Kolar Gold Field, since the year 1923, for the purpose of training selected employees of all classes in the use of oxygen breathing apparatus and gas masks. The services of the Rescue Station are available for employment in a fire emergency for the rescue of gassed or trapped men and for fire-fighting and recovery work.

The Station is centrally situated near the Oorgaum Railway Station and is equipped with 58 sets of Proto oxygen-breathing apparatus and a number of Burrell and Puretha gas masks. A specially equipped motor lorry is housed in the Station and is always loaded with 22 fully charged Proto sets and six Burrell or Puretha masks together with refilling materials and necessary gear. This lorry can deliver rescue apparatus to the most distant shaft in 15 minutes at most. The lorry also carries 1,000 feet of hose pipe in lengths of 50 feet.

Two Eve-Riley rocking stretchers are kept at the Rescue Station for the resuscitation of men affected by gas poisoning. Two sets of Novita reviving apparatus and one 'Sparklet' Co_2 Resuscitator are carried on the lorry.

The organisation is controlled by Messrs. John Taylor & Sons' Committee and is under the direction of an Officer-in-charge. A chargeman and his staff reside at the Station and are always on duty in case of emergency.

The non-resident trained Rescue men number 145 and are drawn from the European, Anglo-Indian and Indian members of the underground staff of the four mines on the Field. Every man is practised monthly at the Station and quarterly underground. A history card is maintained for each trained man giving particulars of his service, attainments and the number of practices performed annually. Deputy Officers drawn from the Senior European trained men are appointed on each mine to regulate the training under the Officer-in-charge and assume control at a fire emergency until the arrival of the Officer-in-charge who is primarily responsible or the conduct of fire-fighting operations.

The Proto oxygen-breathing apparatus with which the Station is equipped is fentirely self-contained and enables the wearer to work in a lethal atmosphere for periods up to two hours without recharging. The Burrell or Puretha mask is an apparatus used in early reconnaissance and affords protection against carbon monoxide, but cannot be used in an atmosphere deficient in oxygen. Masks are installed at all underground hoist chambers and winches for the protection of drivers who can thereby continue to work essential hoists during an emergency. These masks are the property of the mine concerned.

An aviary is maintained and stocked with small local birds. These birds are intended for use as gas detectors, but it has been found that with the great depth and high temperatures obtaining in the mines on the Kolar Gold Field they are unsuitable in the majority of cases and reliance cannot generally be placed on their behaviour.

Ventilation sections of the mines are posted at the Rescue Station and the trained rescue men are instructed in the systems in force at their mines and the measures to be adopted in a fire emergency.

A fire engine mounted on wheels and capable of being towed behind the rescue lorry is housed at the Station and is available for combating surface fires.

Safety First and Accident Prevention.

The several methods that were set on foot last year to educate the ignorant labourer have resulted in an appreciable decrease in the trivial accidents which were mostly due to individual carelessness. The use of hats and trousers is compulsory and nobody is allowed underground without a lamp. The "Safety-first" posters which are illuminated during the night attract the workmen on the shaft tops. The attendance at lecture halls, where models of shafts, levels, stopes, etc., are displayed has largely increased and the ordinary workman has begun to take a keen interest in all these activities, which are being carried on with the main object of reducing accidents. Searching enquiries are held into all serious and fatal accidents, and the persons responsible are given deterrent punishments. In addition systematic inspection of all the mine workings are made to enforce the mining rules.

It is pleasing to be able to state here that the death rate of 1·93 per thousand for the year under report, is the lowest on record since 1908.

As usual, a large number of Europeans, Anglo-Indians and Indians were trained in the "First-Aid" work by holding regular classes and examinations.

III. Accidents.

(*a*) Statistics for the year 1937.

The total number of accidents reported during the year 1937 was 223 against 244 in the previous year.

Of these accidents—

	42 were fatal,
	176 serious, and
	5 non-mining.
Total ...	223

The total number of fatal and serious accidents excluding non-mining cases, was therefore 218 which works out at the rate of 8·18 per 1,000 persons employed as against 9·76 in the previous year.

Enquiries were instituted into all the accidents reported to this Department and inspections were also made in connection with accidents of more than ordinary importance.

Of the above 218 accidents—

21 or 9·63 per cent were due to negligence,
18 or 8·26 per cent were due to recklessness,
179 or 82·11 per cent were classed as unavoidable.

The corresponding figures for the year 1936 were—

23 or 9·58 per cent due to negligence,
17 or 7·08 per cent due to recklessness, and
200 or 83·34 per cent were classed as unavoidable.

In the 42 fatal accidents, 49 persons were either killed or died as a result of injuries received, giving a mortality of 1·84 per 1,000 persons employed against a mortality of 2·44 during the year 1936.

The death rate in the gold mines which as usual employed the largest number was 1·93 per 1,000 against 2·57 in 1936.

The following Chart III shows the total number of persons killed in accidents and death rate per 1,000 persons employed in the mines on the Kolar Gold Field during the years 1906 to 1937. The average death rate for the whole period is 3·08 per thousand and the rate for the year under report is 1·93 which is the lowest on record for the last 30 years.

Of the 42 fatal accidents in 1937—

22 or 52·38 per cent were unavoidable,
4 or 9·52 per cent were due to recklessness, and
16 or 38·10 per cent were due to negligence.

There were five individual accidents involving two or more fatalities, one of these occurring at Mysore, two at Champion Reef, one at Ooregum and one in Nundydroog.

In the 13 separate accidents due to rockbursts, 19 persons were killed, compared with 11 and 20, respectively in the previous year. Of the above accidents, one took place at Mysore, five at Champion Reef, three in Ooregum and four at Nundydroog.

Seven fatal accidents due to explosives occurred underground involving the death of seven persons against seven and eleven respectively, in the previous year.

Falling away in shafts, winzes and stopes accounted for 14 fatalities in 14 accidents against the same number of accidents and deaths, respectively, in the previous year.

Classification of accidents in 1937.

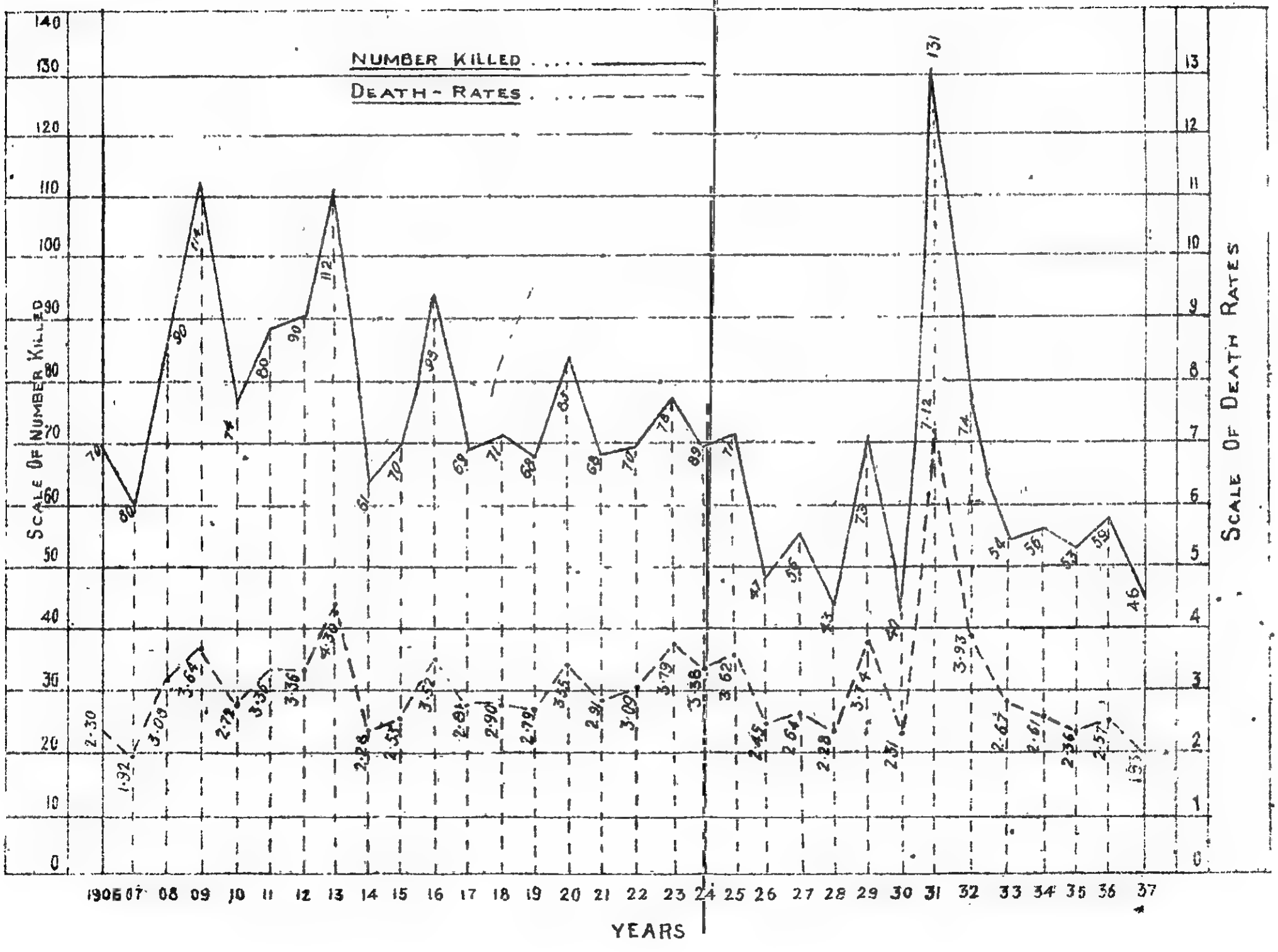
		Fatal accidents	Non-fatal accidents	Deaths	Serious injuries
1	Rockbursts	13	30	19	51
2.	Falls of ground	1	1	1	1
3.	Falling in shafts, stopes, etc	13	12	13	13
4.	Explosives (misfires, etc.)	9	5	10	15
5.	Trucks and Tramways	2	17	2	17
6.	Run over or struck by skips or cages, etc. ..	..	4	...	4
7.	Hoisting	...	...	...	...
8.	Other machinery	..	6	...	6
9.	Falls of rock and materials in shafts, stopes, etc.	1	5	1	6
10.	Ropes and chains breaking	...	...	...	...
11.	Other causes	3	96	3	96
	Total ...	42	176	49	209

Chart IV (on the next page) shows the curves of accident and death rate per 1,000 persons employed underground in the Kolar Gold Mines. It is gratifying to note that the curve for the total number of men involved in accidents has been showing a steady decline from the year 1934 onwards. The rate curves for accidents and serious injuries also show the same tendency to improvement. The curve for death rate which reached the peak in 1931 as a result of an unprecedented fire in Nundydroog Mine when 53 lives were lost, reached the lowest point since 1915 in the year under report. This gradual reduction in the accident and death rates is primarily attributable to the active safety-first campaign which has begun to s imulate the safety sense of the workmen.

KOLAR GOLD FIELD

TOTAL NUMBER KILLED BY ACCIDENTS AND ACCIDEN DEATH RATES PER 1,000 PERSONS IN SERVICE PER ANNUM

CHART III

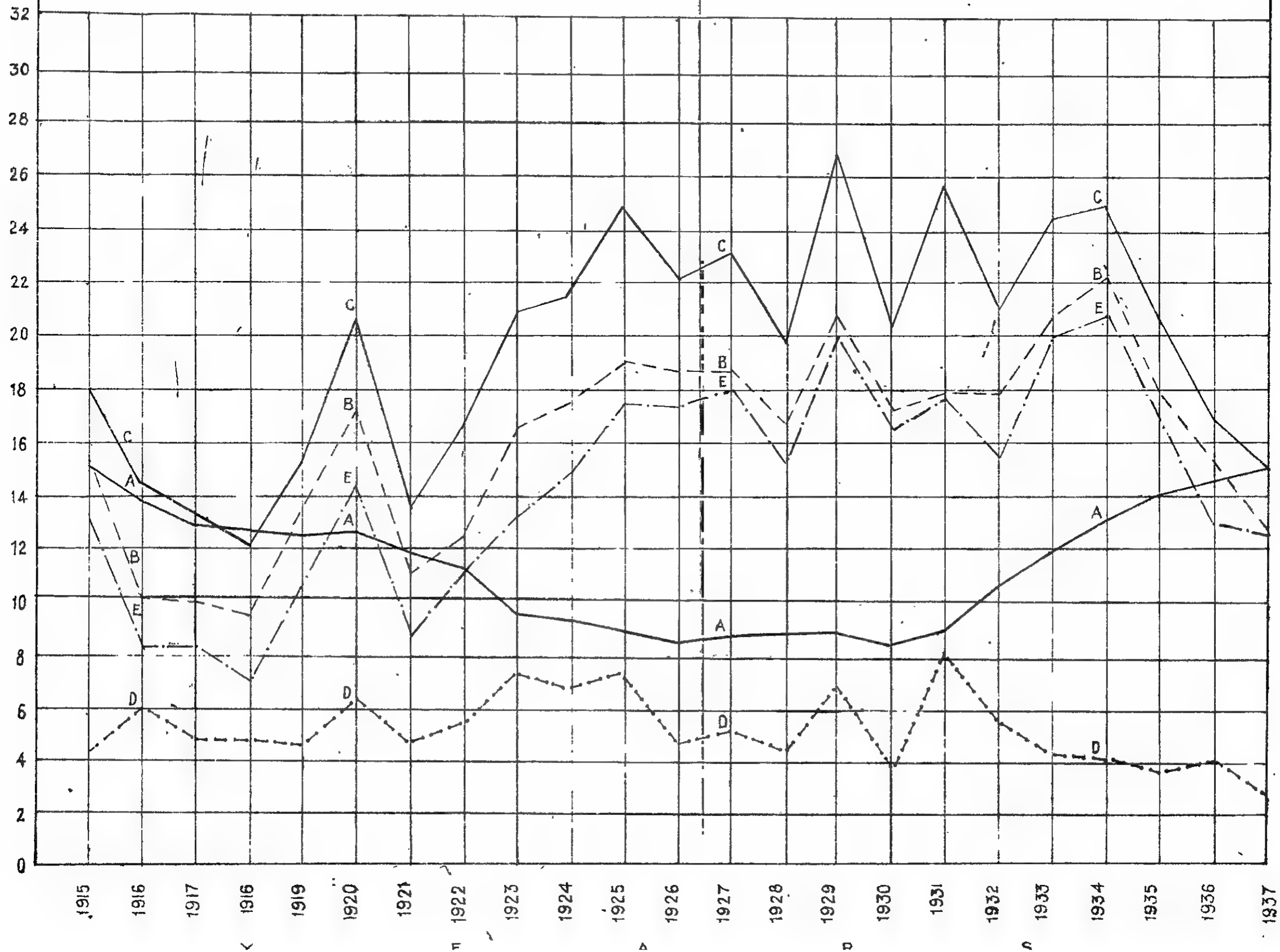


KULAR GOLD FIELD

UNDERGROUND ACCIDENTS

Chart IV.

A. UNDERGROUND LABOUR. 1000's
B. ACCIDENTS PER 1000
C. MEN INVOLVED IN ACCIDENTS PER 1000
D. MEN KILLED PER 1000
E. MEN SERIOUSLY INJURED PER 1000



Non-casualty Accidents reported under Rule 165 of the Mysore Mining Rules.

There were twelve accidents reported under this head caused as follows :—

1.	Engine running out of control	1
2.	Fracture of essential part of winding engine, crank shaft, couplings, gearings, clutch drum or drum shafts ...	1
3.	Fracture of winding rope or its attachments to skip, cage or drum	...
4.	Fracture of pit-head sheave or axle	...
5.	Failure of efficiency of brake	...
6.	Failure of safety catch to act when required	...
7.	Failure of device for prevention of over-winding or of detaching hook to act when required	...
8.	Overwinding of cage or skip	10
9.	Bursting of anything containing steam, compressed air or other substance at high pressure	...
	Total ...	12

Of these 12 accidents reported during the year, 10 were due to overwinding of the cage or skip, one was due to the fracture of drum shaft inside the drum boss of a winding engine and the other owing to an engine running out of control. Eleven of these accidents were due to the carelessness of drivers against whom necessary action was taken; three of them were severely reprimanded and warned as first offenders, while five were fined, the amount of fine ranging from Rs. 5 to Rs. 10; two drivers were suspended from working for six and seven days, respectively, and the certificate of the driver concerned in another case was suspended 'sine-die'.

(b) Compensation for Fatal and Serious Accidents in Mines on the Kolar Gold Field for the year 1937-38.

During the year 126 claims for compensation comprising 53 fatal, 3 permanent total disablement and 70 permanent partial disablement, arose from accidents in the mines on the Kolar Gold Field and the compensation awarded under all the above heads amounted to Rs. 70,986 as against Rs. 69,658 paid in the previous year. Besides the above, compensation amounting to Rs. 29,088 was paid in cases of temporary disablement in pursuance of Section 4 (*d*) of the Workmen's Compensation Act as against Rs. 18,194 paid in the preceding year.

An extract from the report of the Commissioner on the administration of the Workmen's Compensation Act on the Kolar Gold Field during 1937-38 is published in Appendix I of this Report.

The following statement shows the number of fatalities permanent and temporary disablements and compensation paid by the mines working on the Kolar Gold Field during the year ended 30th June 1938 :—

Name of Mine	Number of cases (a)				Compensation paid (b)				
	Fatalities	Permanent Total Disablement	Permanent Partial Disablement	Temporary Disablement	Fatalities	Permanent Total Disablement	Permanent Partial Disablement	Temporary Disablement	Total
					Rs.	Rs.	Rs.	Rs.	Rs.
Mysore ...	13	...	13	728	9,520	...	4,706	5,765	19,991
Champion Reef ...	10	...	23	725	7,010	...	6,349	7,832	21,191
Ooregum ...	16	2	10	531	10,055	1,470	5,235	6,176	22,936
Nundydroog ...	13	1	24	1,164	9,340	1,992	11.617	9,253	32,142
Allied Departments	1	...	...	9	3,500	...	252	62	3,814
Total ...	53	3	70	3,157	39,425	3,402	28,159	29,088	1,00,074

(a) Number of cases relates only to those accidents which occurred during the period from 1st July 1937 to 30th June 1938.

(b) Compensation paid relates to payments made during the period from 1st July 1937 to 30th June 1938, but this includes payments in respect of accidents previous to 1st July 1937 also.

The following amounts were paid as compensation in the previous years :—

	Total amount of compensation paid. Rs. a. p.
1932-33	71,900 12 0
1933-34	79,454 12 0
1934-35	85,658 0 0
1935-36	1,10,769 0 0
1936-37	87,852 0 0

Miners' Phthisis.

Special Rules in pursuance of sub-section 2-A of Section 3 (amended) of the Workmen's Compensation Act, for the medical examination of workmen and autopsy on the bodies of deceased workmen, referred to in the last year's report have since been framed and the sanction of Government is being awaited to bring them into force.

Notes on important Accidents during the official year 1937-38.

There were 7 accidents in which two or more lives were lost resulting in 24 deaths as compared with two accidents and nine fatalities during the previous official year. Of these, four rockbursts were responsible for 15 deaths, four lives were lost in a single explosive accident and the remaining five deaths were due to two miscellaneous accidents in which two and three persons died respectively.

Cause	Number of accidents	Number of fatalities
Unavoidable	4	15
Negligence	2	6
Recklessness	1	3
Total ...	7	24

Rockbursts.

Though there was an increase in the total number of fatalities it is seen from the seismographic records of the year that there has been actually a decrease in the intensity and frequency of the heavy type of rockbursts which were causing considerable damage to person and property. This was due to the much improved methods of supporting excavations rigidly, such as granite masonry or dry packing of stopes, concrete arching or steel setting of levels and concrete or brick lining of shafts. In spite of all these precautions ten accidents involving 21 fatalities occurred during the year. Of the 21 deaths, two or more lives were lost in four accidents accounting for 15 deaths and in all the other accidents only single fatalities occurred. In two accidents in the Ooregum Mine 11 lives were lost, seven in one and four in the other, as a result of a series of very heavy rockbursts. Rockbursts still continue to contribute a large percentage to the total death rate.

Accident No. 32 of 1938.—This most unfortunate accident in which seven lives were lost occurred in a remnant which was being worked by hand labour. About the end of the morning shift on the 19th February 1938, while four pairs of handjumper coolies were drilling holes in a stope below the 55th level S., Oakley's No. 2 Vertical Shaft, a series of very heavy rockbursts occurred resulting in six of them being completely entombed in the debris and two seriously injured, one of the latter dying later in hospital making a total of seven deaths in all. This block of ground between the 55th and the 56th levels, a depth of 100 feet, was gradually taken out in small lengths by underhand stoping and the excavation was systematically supported with pigstyes which were kept as close to the working face as practicable, allowing only sufficient room for the workmen to drill holes. On the

day of the accident, the size of the remnant was 45′ × 20′ with an average width of 3 feet. The levels above and below this stope had been secured with steel sets and the worked out areas all round it had been Secured with pigstyes or granite packs and the intervening spaces filled in with waste rock. This was the only stope that was being worked in this area at the time and the damage was confined to this single working place. The level immediately below the pillar suffered the most. One of the steel sets supporting the level below the pillar had been fractured while four of them had been twisted, one taking the shape of an S. The working face had been filled up with debris throughout its length for a thickness of four feet. The lamps and jumpers which had been thrown up by the violent burst were found on top of the debris. The hanging and footwalls between the working face and the last line of supports had been shattered and the footwall had been displaced for a thickness of four feet. The remnant itself had been crushed and all sides shattered. But for the steel sets which effectively withstood the violent ground movements, the 56th level would have been closed up and rescue work greatly hampered. Steel sets which consist of two semi-circular or oval pieces of 75 lb. section rails held in position by shoes or rectangular steel boxes at the top and bottom have proved to be very effective in keeping the levels open even in zones of great pressure.

Accident No. 197 of 1937.—An extraordinarily heavy rockburst followed by others of lesser intensity occurred on 22nd October 1937, which violently shook all the buildings on the Kolar Gold Field. The vibrations were felt even in places more than 18 miles away from the Field. The Champion Reef and the Ooregum Mines were affected and the damage to persons and property was greatest in the latter mine. This burst occurred at a time when the full morning shift was at work in both the mines but fortunately only seven people were injured in the Champion Reef Mine while the damage to underground workings was extensive in the Ooregum Mine and four persons were killed and four others seriously injured.

The central portion of the Ooregum Mine between the two main secondary shafts had been severely damaged between the 57th and 70th levels. This zone which has been intensively stoped is traversed by a number of dip-faults and a 120 feet wide dyke runs just south of it. The deepest working point of the mine was 8,000 feet below surface and all the damage was confined to the levels above 7,000 feet. Except for a few falls of rock, the stopes were not in the least affected but the levels suffered the most and all the casualties occurred there.

A number of timber sets and runners were damaged in Oakley's No. 2 Vertical Shaft which lies in the centre of this disturbed zone, making it impossible to move the cages. Similarly the cage roads below the 64th level, Auxiliary Shaft, had also been damaged. Portions of levels between the 57th and 70th levels had been choked and the bottom of one level had been lifted up for a considerable distance and the steel sets had been bent. The damage was greatest at the 66th level which was in the centre of the zone of maximum intensity.

All the stopes had been systematically supported with granite packs and levels secured with steel sets which were able to withstand sudden ground movements and keep the levels which would otherwise have been closed in. But for these steel sets, the damage to person and property would have been much greater.

The intensity of this burst that started a number of ground movements in quick succession was so great that all the three styles of the seismograph were thrown off. It will be seen from the following record of the movements that equilibrium was not restored until after three hours of the initial disturbance :—

Time	N—S	E—W	Vertical
9 Hours 38·00 Mts.	Style off	Style off Re-set 11 minutes later	Style off
9 do 52·60 do	0.1 m/m	0·5 m/m	1·0 m/m
9 do 56·75 do	2.3 do	2·2 do	1·2 do
9 do 58·36 do	0.8 do	0·9 do	1·0 do
9 do 59·73 do	0.1 do	0·4 do	0·1 do

Time	N—S	E—W	Veritical
10 Hours 1'85 Mts.	0'9 m/m	1'3 m/m	0'4 m/m
10 do 15'23 do	0'4 do	0'8 do	0'1 do
10 do 23'73 do	0'4 do	1'0 do	0'1 do
10 do 25'38 do	1'8 do	1'7 do	0'1 do
10 do 25'41 do	3'4 do	2'9 do	2'0 do
10 do 42'18 do	.....	0'4 do	... ..
11 do 12'28 do	8'6 do	8'3 do	2'2 do
11 do 12'38 do	0'1 do	0'3 do	0'3 do
11 do 33'73 do	0'1 do	0'5 do	0'1 do
11 do 55'00 do	2'7 do	1 5 do	2'0 do
12 do 14'00 do	2'0 do	2'6 do	2'3 do

Explosives.

Accident No. 67 of 1938.—The worst explosive accident of the year in which four lives were lost occurred in a driving end at the 88th level N. Edgar's Sub-Vertical Shaft, Mysore Gold Mine. During the morning shift on 24th May 1938 two climax Imperial Drills mounted on a single bar were being used for boring holes and while the 6th hole was being drilled one of the drills intersected an old hole and caused an explosion. Two machine men were killed instantaneously and two others died later in hospital. As this was an avoidable accident which could have been prevented with due care, action was taken against the persons responsible for the safe conduct of work and they were convicted and fined.

There were four other accidents in which a single life was lost in each case and of these three were due to deepening old sockets and one was due to a certified blaster being caught in the blast while he was igniting the fuses.

In spite of the lectures and safety first propaganda, accidents from this cause continue to occur. There were five accidents involving 8 fatalities during the year as against the same number of accidents and five deaths during the previous year, the increase of 3 deaths being due to the loss of four lives in the single accident described above.

Falling in Shafts, Winzes, Stopes, Etc.

There were 11 accidents involving 11 deaths as against 13 accidents and 13 deaths in the previous year. Though there has been a slight decrease in the total number of fatalities, yet, accidents from this cause would not have occurred if the individuals concerned had taken due care in carrying out the work entrusted to them. Two persons fell down Vertical Shafts from the plats while they were in the act of getting into a cage which was suddenly moved. An electric fitter fell down a steeply inclined shaft while getting into a cage from the plat as he failed to use the safety door to step on to enter the cage. A trammer while walking along the level without a light stepped into an open winze and was killed. A hoisting cooly while riding up on the edge of a skip overbalanced into the shaft.

The others lost their lives by falling in stopes or winzes from ladders or stages. In one accident three machine men lost their lives by falling down a rill stope owing to the collapse of the stage on which they were working. The collapse of the stage was attributable to the failure of a bed-piece owing to a large accumulation of broken ore on the stage, and the persons responsible for the safe conduct of work in this stope were suitably punished.

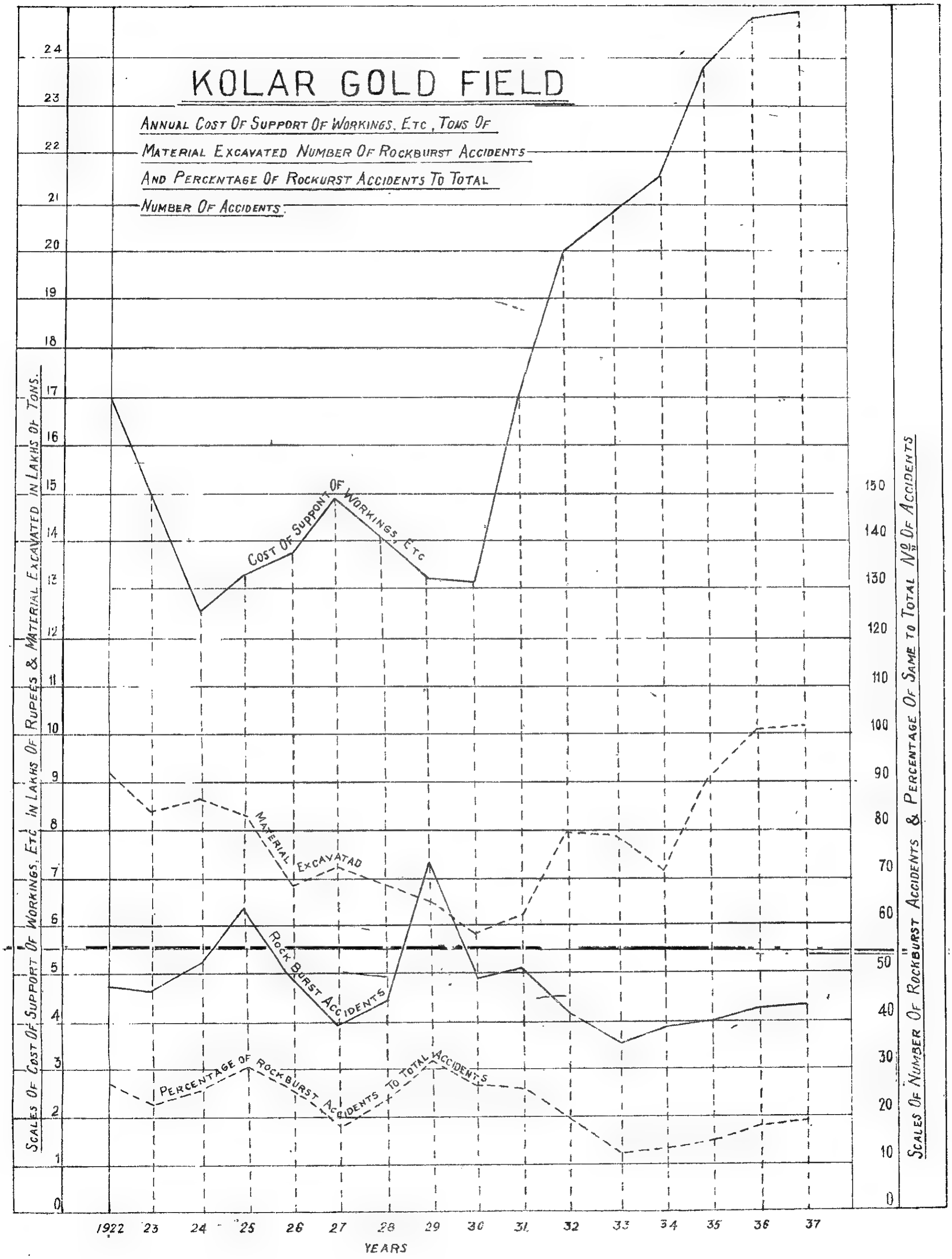
Miscellaneous.

Two surface coolies were suffocated to death as they were caught in the debris resulting from the collapse of a side of a foundation for an engine house on surface near Gifford Shaft, Champion Reef Mine. The length of the foundation trench was 70 ft. and the width 6 ft. and one side was 14'-6" high while the other side was 9'-3". While the bottom of the foundation was being cleared by 12 coolies, the top of the higher side suddenly collapsed and buried two of them. The sudden fall of

CHART V

KOLAR GOLD FIELD

ANNUAL COST OF SUPPORT OF WORKINGS, ETC, TONS OF MATERIAL EXCAVATED NUMBER OF ROCKBURST ACCIDENTS AND PERCENTAGE OF ROCKURST ACCIDENTS TO TOTAL NUMBER OF ACCIDENTS.



the side was due to the effect of the heavy rain which fell two days before, resulting in rain water seeping through soft clay overburden into a fissure behind the west side causing the overburden to slip down a smooth joint plane. The overburden had been cut back and the side sloped and a few props fixed in the foundation. The exposed face showed a smooth concave joint plane for a length of 30 ft. and the ground that fell consisted of decomposed hornblende schist and soft gravelly clay. The Chief Engineer had inspected the foundation a few minutes before the accident and there were no indications of an impending collapse as no trace of the fissure or any crack was noticeable in the foundation.

The accompanying graph Chart V, shows the gradual increase in the cost of support of workings as compared with the material excavated. It will be seen therefrom that the cost of support of workings rose from Rs. 13,10,014 in 1930 to Rs. 24,99,565 in 1937, whereas the increase in materials excavated during the same period was from 580,228 tons to 1,014,542 tons.

Cases of Neglected Injuries.

During the year there were 19 cases of neglected injuries compared with 17 in the preceding year, which though trivial at the time of occurrence became serious owing to delay on the part of the persons concerned in seeking timely medical aid. The total number of neglected mining accident cases, both serious and trivial, treated in the Kolar Gold Field Mines' Hospital was 712 as against 694 in the previous year showing an increase of 18. Action is being taken to educate the workmen by means of lectures advising them to seek immediate medical aid even in cases of trivial injuries.

The following statement shows the cases of neglected injuries treated in the Companies' Hospital:—

Name of Mine	January		February		March		April		May		June		July	
	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial
Mysore	...	20	1	21	2	18	3	29	1	17	...	18	1	29
Champion Reef	1	10	...	11	1	8	...	8	...	9	...	5	...	8
Ooregum	...	11	...	5	...	5	...	6	...	7	...	9	...	8
Nundydroog	1	19	1	17	1	16	...	17	1	10	1	15	..	17
Total ...	2	60	2	54	4	47	3	60	2	43	1	47	1	57

Name of Mine	August		September		October		November		December		Total	
	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial	Serious	Trivial
Mysore	...	23	1	21	...	27	...	31	...	19	9	273
Champion Reef	...	7	1	12	1	11	...	10	...	11	4	105
Ooregum	...	6	...	8	...	9	...	13	1	7	1	89
Nundydroog	...	33	...	20	...	17	1	22	...	23	6	226
Total ...	...	69	2	56	1	64	1	76	1	60	20	693

IV. Meteorology and Seismology on the Kolar Gold Field.

The following has been taken from the report for the year 1937 by Mr. H. A. Martin, Officer-in-charge of the Kolar Gold Field Observatory, which was kindly furnished to this Department by Messrs. John Taylor and Sons' Committee, Oorgaum.

Meteorology.

Observations were regularly taken throughout the year at 8, 10 and 16 hours and the results tabulated.

Temperatures.—The highest dry and wet bulb temperatures recorded during the year were 99·2°F. and 76·0°F. respectively, while the lowest were 52·7° F. and 49·0°F., respectively. The mean dry bulb temperature for the year (75·7°F.) was only 0·1°F. above the normal while the mean wet bulb temperature (66·7°F.) was 1·0°F. above the normal.

Rainfall.—The rainfall for the year was 41·13 inches being 10·03 inches above normal and the greatest annual rainfall for a period of eighteen consecutive years.

Seismometry.

The installation was maintained in continuous operation throughout the year and instrumental failures were few.

Classification of Rockbursts.—The same classification as in previous years has been continued and the following table gives the total number of bursts recorded during the year :—

Displacement in Millimetres	Number of Rockbursts		
	1937	Normal (Mean)	Departure
Less than 1·0	2,878	2,320	+558
Between 1·0—2·0	406	442	—36
Between 2·0—3·0	89	149	—60
Between 3·0—10·0	94	98	—4
Between 10·0—20·0	2	4	—2
Over 20·0	1	4	—3
Those in which one or more styles were thrown off.	7	5	+2
Total ...	3,477	3,022	+455

From the foregoing table it is clear that during 1937 "Minor" bursts have shown a definite increase while "Medium" bursts have distinctly decreased.

The following table shows the total number of bursts of 1 m/m. displacement and upwards during the years of observation:—

Year	Total	Year	Total
1917	90	1928	295
1918	106	1929	446
1919	132	1930	693
1920	253	1931	675
1921	322	1932	564
1922	303	1933	830
1923	282	1934	667
1924	328	1935	1,065
1925	445	1936	786
1926	337	1937	599
1927	341		

Average for 1917 to 1937=455.

Excess over average in 1937=144.

Earthquakes and Tremors.—The following table gives the number of disturbances of seismic origin recorded during 1937 together with the normal and departure therefrom :—

	1937	*Normal*	*Departure*
Earthquakes ...	21	27	—6
Tremors ...	348	317	+31

V. Prosecutions.

(a) In connection with thefts, etc., of Mining Materials.

The following statement shows the number of cases dealt with during the year 1937 by the Special First Class Magistrate, Kolar Gold Field, in connection with the theft and illegal possession of mining materials under Section 6 of the Mysore Mines Act, as compared with 1936 :—

Year	Number of cases	Number of persons put up	Number of persons convicted	Value of property recovered
				Rs. a. p.
1937	48	70	49	652 11 3
1936	53	89	60	946 11 0

The following table shows the various kinds of mining materials in respect of which prosecutions were instituted during the year 1937 :—

Kind of material	Number of offences dealt with	Number of persons charged	Number of convictions	Value of property recovered
				Rs. a. p.
Gold Quartz	28	36	25	102 10 10
Auriferous Tailings	4	5	5	5 6 6
Amalgam	9	16	15	17 4 11
Sponge Gold	5	10	2	489 13 0
Unwrought Bar Gold	1	1	1	7 8 0
Explosives	...	...	...	...
Tools	1	2	1	30 0 0
Total ...	48	70	49	652 11 3

(b) In connection with breach of Rules, Accidents, etc.

The following is a comparative statement for the years 1937, 1936 and 1935:—

	1937	1936	1935
Number of cases	30	45	23
Number of persons put up	41	52	28
Number of persons convicted	39	41	27
Number of persons acquitted	...	8	...
Number of persons discharged	2	3	1
Number of persons not found	...	...	...
Number of cases pending	...	..	...

All the above cases were put up under the Mysore Mines Act IV of 1906. The penalties in the case of convictions ranged from fines of Re. 1 to Rs. 25 and imprisonment for periods varying from 1 month to 3 months.

During the year, nine persons were prosecuted for breaches of Mysore Mines Act and Rules framed thereunder, resulting in accidents. Except in one case in which the accused absconded, all the rest were convicted.

Less serious offences committed in connection with 23 accidents entailed departmental punishment of 26 persons who were either fined or had their certificates suspended.

Similarly, 33 persons were dealt with departmentally for offences not resulting in accidents.

E. EXPLOSIVES SECTION.

(Calendar year 1937).

Number of Licenses issued.—During the year, eight licenses in Form J were granted by Government under Articles 12 and 13 of Schedule I, Mysore Explosives Rules, for the possession of specified explosives (other than fulminates) in and sale from, a magazine, the same as in the previous year. The actual number of magazines inspected is far in excess of this number as each Gold Mining Company has two or more daily supply magazines included under one license in accordance with Rule 94, Mysore Mining Rules.

Altogether, 799 licenses were issued by the District Magistrates under the remaining Articles of Schedule I in Forms A, B, C, D, E, EE and F for the manufacture, possession and sale of explosives, 115 less than in the previous year.

In all 807 licenses were granted throughout the State for the year compared with 922 during 1936, a decrease of 115 licenses.

The following statement shows the distribution of licenses in the various forms among the districts for the year :—

District	Forms										Total for 1937	Total for 1936
	A	B	C	D	E	EE	F	J	K	L		
1. Bangalore ...	12	116	...	...	52	..	...	1	...	...	181	175
2. Kolar ...	8	53	...	...	27	2	...	5	...	...	95	128
3. Tumkur ...	5	25	...	1	31	...	...	...	...	...	62	71
4. Mysore ...	9	60	...	4	36	1	..	2	...	...	112	104
5. Hassan ...	1	32	...	15	77	...	1	...	...	...	126	180
6. Shimoga ...	1	71	...	14	33	...	...	...	...	...	119	126
7. Kadur ...	7	29	1	6	22	...	...	...	...	...	65	88
8. Chitaldrug ...	5	25	...	...	15	2	...	..	...	...	47	50
Total ...	48	411	1	40	293	5	1	8	...	...	807	922

Observations on the issue of Licenses by the District Magistrates.—A few irregularities observed in the monthly statements of licenses issued in the districts such as licensing larger quantities of explosives and levying less fees than prescribed in the rules, were promptly brought to the notice of the licensing authorities concerned and the defects got remedied.

Departmental Inspection of Magazines and Premises.—All the main and subsidiary magazines included in the licenses granted by Government for the posse ssion of specified explosives both on the Kolar Gold Field and outside and all the daily supply magazines at shaft heads, have been inspected in detail during the year by the officers of this department. The magazines are in good order and their up-keep and supervision well attended to. As usual, the Companies have been found to be most willing to carry out any recommendations made by this department.

In addition, the Electrical and Public Works Department Magazines at Rottikatta, Shimsha, Tumkur, Shimoga and those under the control of the Mysore Iron and Steel Works at Bhadravati, Kemmangundi and Bhadigund were inspected during the year. Some of the premises licensed for the manufacture, possession and sale of gunpowder and fireworks in Bangalore and Mysore Cities and Davangere were also inspected during the year when the rules on the subject were explained in detail to the licensees and safe methods of manufacture and storage advised.

Condition of Explosives.—The physical condition of all explosives in the different magazines were found to be good except the following :—

During the year, the Ooregum Gold Mining Company of India, Ltd., sent to this Department for examination 52 cartridges of Polar Ammon Gelatine Dynamite (7/8″) and 300 coils of Fuse (D. C. No. 6) which were found to be defective and were therefore destroyed.

During the inspection of Nobel's Explosives Magazines, Bangalore City, a box of old Cordeau Countered Fuse was found in stock and the same was despatched by the Agent to Madras for destruction.

The General Manager, Mysore Iron and Steel Works, Bhadravati, was advised to destroy an old stock of 250 percussion caps which were found in the Bhadravati Explosives Magazine and 48 coils of defective fuse held in stock in Kemmangundi Magazine.

Authorised Explosives.—A list of explosives at present authorised for importation into the State for general sale, adopted from the list of explosives authorised for importation into British India, is given in Appendix III.

Government Magazines in charge of Civil Officers (Public Works and Electrical).—Fourteen reports of inspection of these magazines by the officers of the Public Works, Iron Works and Electrical Departments have been received in this office and the defects which required remedying have been brought to the notice of the officers concerned.

Inspection by the Magistracy and Police.—The total number of inspections of explosives premises carried out during the year by the Magisterial and Police Officers empowered to conduct them under Rule 125, Mysore Explosives Rules, was 874 compared with 582 during the previous year, an increase of 292 inspections, which though apparently gratifying is not satisfactory as the percentage of licensed premises inspected was only 32·49 as compared with 50·30 in the previous year. This increase in the number of inspections is due to the same premises in towns being inspected more than once in the year, leaving out a large number of premises in the interior uninspected.

Two hundred and fifty-eight premises or 32·49 per cent of the total number licensed (794) excluding the eight magazines licensed by Government for the possession of specified high explosives and 5 'EE' licenses issued for the possession of small quantities of gunpowder only required for blasting purposes, have been inspected by the District Officers.

The following table gives the number of licenses issued in the several districts and the percentage of premises inspected in each during 1937 and the two previous years:—

District	No. of licenses issued during			Percentage of premises inspected during			Remarks
	1937	1936	1935	1937	1936	1935	
1. Bangalore ...	181	175	218	15·00	20·75	12·80	1 Granted by Government.
2. Kolar ..	95	128	211	34·09	46·55	47·27	5 Do
3. Tumkur ...	62	71	71	19·35	36·67	72·41	
4. Mysore ...	112	104	80	68·81	85·71	16·92	2 Do
5. Hassan ...	126	180	105	26·19	41·82	48·98	
6. Shimoga ...	119	126	69	32·77	51·43	81·88	
7. Kadur ...	65	83	104	43·08	63·46	97·87	
8. Chitaldrug ...	47	50	43	31·11	80·65	100·00	
Total ...	807	922	901	*32·49	*50·30	*49·90	

*These percentages are obtained after excluding the Magazine Licenses brought under the direct inspection of the Chief Inspector of Mines and Explosives and the licenses issued in Form EE (granted to cultivators and others) to possess small quantities of gunpowder required for blasting purposes.

Theft of Explosives.—During the year a case of theft from the Explosives Magazine in charge of Messrs. The Tata Iron and Steel Works at Dodkanya, involving 50 dynamite cartridges, 291 detonators and 15 coils of fuse was reported to this department. This case was struck off as all efforts made by the Police to trace the stolen explosives proved futile.

Prosecution for unlicensed Manufacture of or aealing in Explosives.—There were 38 cases of prosecution under the Mysore Explosives Act and Rules thereunder during the year resulting in the conviction of 35 persons and acquittal of eight others. Nine of these were in connection with accidents.

The following table gives the number of cases launched in each district together with the result thereof :—

District	No. of cases	Nature of offence	No. of persons charged	No. of persons convicted	Result
Bangalore ...	8	Unauthorised manufacture and possession of fireworks.	8	8	One convicted and released on a bond for Rs. 100 to be of good conduct for one year- One fined Rs. 1. In one other case a person was fined Rs. 2 or in default one day's simple imprisonment.
Do ...	2	Unauthorised possession of gunpowder.	2	2	Fined Rs. 2 and annas 8, respectively.
Do ...	4	Unlicensed possession and sale of explosives.	4	4	Fined Rs. 15 each.
Kolar ...	2	Unauthorised possession of gunpowder for blasting purposes.	3	1	Fined Rs. 75 or in default 3 month's rigorous imprisonment. Two acquitted
Do ...	2	Unauthorised manufacture, possession and sale of fireworks.	4	2	Two fined Rs. 7 and Rs. 5, respectively. Two acquitted.
Tumkur ...	1	Violation of conditions of a license ...	1	1	Fined Rs. 10.
Do ...	2	Unauthorised possession and sale of fireworks.	2	2	Fined Rs. 5 and Rs. 10.
Do ...	1	Unauthorised importation and possession of prohibited explosive.	1	1	Fined Rs. 10.
Do ...	1	For possessing explosives in excess of the quantity permitted by the license.	1	1	Fined Rs. 20 or in default one month's rigorous imprisonment.
Mysore ...	8	For dealing in larger quantities of fireworks than licensed.	8	8	Fined Rs. 60, Rs. 50, Rs. 30, Rs. 25 and Rs. 15; three others Rs. 20 each.
Do ...	1	Unauthorised possession of explosives.	1	1	Fined Rs. 2.
Do ...	2	Unauthorised manufacture ...	2	1	Fined Rs. 30 or in default 2 weeks' simple imprisonment.
Do ...	4	Unauthorised sale of fireworks ...	4	4	Fined Rs. 10 each.
Hassan ...	1	Unauthorised manufacture of fireworks	2	...	Acquitted.
Shimoga ...	1	Violating conditions of a license ...	1	1	Fined Rs. 15.
Do ...	1	Unauthorised possession of fireworks.	1	1	Fined Rs. 8.
Chitaldrug ...	1	Unauthorised possession of fireworks.	1	1	Fined Rs. 5.
Do ...	1	Unauthorised transport of explosives.	2	1	Fined Rs. 5; one acquitted.

Accidents.—In all there were reported to this department during the year 50 accidents due to explosives involving the death of 16 persons and injuries to 60 others compared with 41, 18 and 54, respectively, during 1936. Of these, 12 occurred on the Kolar Gold Field resulting in the death of seven persons and serious injuries to 15 others. Drilling into or intersecting sockets were the chief causes of these mining accidents.

A list of accidents, with a brief description of each, that occurred outside the Kolar Gold Field mining area is given in Appendix II.

Departmental action in connection with Accidents.—In 9 out of 12 accidents that occurred on the Kolar Gold Field, departmental action was taken. Of the remaining three cases, two were due to recklessness on the part of the deceased persons themselves and the injuries sustained by the person responsible for the third were considered sufficient punishment. The mestris or blasters responsible for three of the nine accidents were suspended from working as such for a period of three months and the certificate of the mestri concerned in another case was cancelled. Prosecution was launched against five persons responsible for five separate accidents. In two cases, two persons were convicted and sentenced to pay fines of Rs. 10 and Rs. 20 respectively, while in two other cases, the persons were convicted and sentenced to undergo imprisonment for three months and one month, respectively, in addition to a fine of Rs. 25 in the latter case. The last case was struck off the file as the accused person absconded.

Explosives imported into the State.—The following statement shows the quantities of explosives that were imported into the State during 1937 compared with those of the previous year :—

Description		1937	1936	Increase	Decrease
Gunpowder ...	... Lbs.	5,054	5,646	...	592
Percussion caps ...	... No.	1,153,000	1,214,500	...	61,500
Dynamite ...	... Lbs.	239,600	275,000	...	35,400
Blasting Gelatine ...	... ,,	482,500	492,500	...	10,000
Gelignite ...	... ,,	86,250	50,000	36,250	..
Safety Fuse ...	.. Coils.	371,925	344,050	27,875	...
Safety Fuse Lighters ...	... No.	80,000	115,600	...	35,600
Detonators ...	... ,,	2,930,500	2,090,000	840,500	...
Sulphur ...	... Lbs.	45,543	202,687	...	157,144
Loaded rifle cartridges ...	... No.	12,410	9,551	2,859	...
Do gun do ...	... ,,	106,090	80,560	25,530	...
Do revolver do ..	... ,,	7,250	10,275	...	3,025
Do pistol do ...	... ,,	325	921	...	596
Empty gun cartridges ...	... ,,	3,000	8,025	...	5,025
Shots ...	... Lbs.	450	...	450	...
Empty revolver cartridges	... No.	...	100	...	100

Explosives confiscated to Government.—Ten pounds in all of blasting gelatine, gelatine dynamite and gelignite seized by the Bangalore City Police from a non-licensee who was convicted and sentenced to pay a fine of Rs. 25, were ordered to be confiscated to Government by the the Magistrate. These were sold and the sale proceeds credited to Government. Three lead azide detonators, three cartridges of blasting gelatine and six feet fuse seized by the Kolar Gold Field Police in another case and ordered by the Magistrate to be returned to the Common Nominee of the Mining Companies, were destroyed.

Amendments to the Mysore Explosives Rules—(Import Licenses).—Government in their Notification No. D. 1929—Geol. 82-36-6, dated 24/26th August 1937, amended Article 1, Schedule I, Mysore Explosives Rules, and empowered the District Magistrates to grant Import Licenses free of charge by prescribing the following procedure to be adopted in the matter of obtaining licenses for the export of explosives from British India into the Mysore State :—

Prior to applying for an export license, the licensee must obtain an import license which is granted free of charge from the District Magistrate of the District whereto he wishes to import explosives, *vide* article 1, Schedule I, Mysore Explosives Rules (amended). Then an application for the export of explosives from British India into Mysore State should be submitted to the Hon'ble the Resident in Mysore through the District Magistrate together with the license granted for the import of explosives, the possession license and the stock certificate. The requisite fee for an export license, *viz.*, Rs. 5 should be paid to the Resident's Treasury in cash by postal money order or in a registered cover.

Government also amended Condition 7 (2) of License Form B of the Rules by raising the quantity of manufactured fireworks that could be possessed in Mode 'B' from 50 to 100 lbs. in their Notification No. D. 6869—Geol. 55-37-5, dated 29/30th March 1938.

Petroleum.

Number of Licenses Issued.—During the calendar year 1937, 174 licenses were issued under the Mysore Petroleum Act and rules, of which 140 were for the import, transport or possession of dangerous petroleum and 34 for non-dangerous petroleum. Sixty of the former were granted in Form Q under Rule 6, Chapter VI, Part II of the Petroleum Rules, for the storage of dangerous petroleum in underground tanks attached to kerbside pumps.

The following statement gives the number of licenses issued in each district during the year in various forms :—

District	Forms														Total for 1937	Total for 1936
	A	B	C	D	E	F	G	H	L	M	O	P	Q	R		
1. Bangalore ...	...	2	2	...	...	...	2	4	...	3	...	...	18	...	31	34
2. Kolar ...	...	3	...	1	6	...	...	..	...	...	...	1	6	1	18	20
3. Tumkur ...	3	3	3	...	...	2	...	1	...	...	...	...	3	...	15	10
4. Mysore ...	1	3	2	...	4	3	...	1	...	...	...	...	18	4	41	33
5. Hassan ..	1	3	4	...	1	...	...	...	...	...	...	...	4	1	14	15
6. Shimoga ...	2	4	7	...	3	...	...	.	...	...	...	...	3	2	21	15
7. Kadur ...	4	9	4	...	...	...	...	...	...	...	...	...	4	...	21	14
8. Chitaldrug ...	4	1	1	...	2	...	...	...	...	...	...	.	4	1	13	18
Total ...	15	33	23	1	16	5	2	6	...	3	...	1	60	9	174	154

License Fees.—The total amount of fees realised during the year under report was Rs. 3,438 as against Rs. 3,122 in the previous year.

Inspections.—The major petroleum installations both bulk and non-bulk in the Districts of Bangalore, Mysore, Tumkur, Hassan, Shimoga, Kadur and Chitaldrug were inspected by the officers of this department during the year.

Accidents.—No accidents from dangerous petroleum were reported to this department during the year.

Prosecutions.—There were ten cases of prosecution under the Mysore Petroleum Act and Rules thereunder. In six cases in the Kolar District six persons were charged for the unauthorised possession and transport of dangerous petroleum and they were convicted and sentenced to pay fines ranging from Rs. 3 to Rs. 5 and petroleum in their possession aggregating 58¾ gallons was ordered to be confiscated to Government by the Magistrate. In the remaining four cases two persons in the Tumkur District were fined Rs. 5 each and two in the Chitaldrug District were fined Rs. 30 each for a similar offence.

Petroleum imported into the State.—The total quantities of dangerous petroleum and kerosene oil imported into the State during the calendar year 1937 were 2,535,378 and 3,956,640 gallons, respectively, as against 2,068,789 and 3,858,118 gallons, respectively, imported during 1936.

Carbide of Calcium Rules.—Five licenses for the possession of calcium carbide were current during the year.

Petroleum Act and Rules.—The Mysore Patroleum Act and the Rules thereunder have been revised and submitted to Government for approval.

OORGAUM, K. G. F.
15th September 1938.

K. DURAISWAMIER,
Chief Inspector of Mines and Explosives in Mysore.

Statement of Capital employed, etc., in Gold Mines wo in the State of

1936.

NAME OF MINING COMPANY	Nominal Capital £ Stg.	Shares: Number issued	Shares: Par Value, Shillings	Shares: December Prices Min.	Shares: December Prices Max.	Paid-up Capital: Per Share, Shillings	Paid-up Capital: Total £ Stg.	Dividends Paid: Amount £ Stg.	Dividends Paid: Percentage of Paid-up Capital	Fine Gold and Silver Produced: Mint Fine Gold Ounces	Fine Gold and Silver Produced: Value £ Stg.	Fine Gold and Silver Produced: Mint Fine Silver Ounces	Fine Gold and Silver Produced: Value £ Stg.	Fine Gold and Silver Produced: Total value of Fine Gold and Silver £ Stg.	Royalty Payable to Government: At 5 per cent on the value of gold and silver produced less refining charges £ Stg.	Royalty Payable to Government: (f) Rate	Royalty Payable to Government: Percentage on dividends (X) or adjusted profits (Y) as per sanctioned sliding scale, Amount £ Stg.	To £ S
A. DIVIDEND PAYING.																		
Mysore Go Mining Company, Limited	610,000	1,220,000	10	25/3	26/3	10	610,000 0 0	167,750 0 0	27½	97,158·869	677,338 5 3	6,016·87	529 19 3	678,368 6	33,769 11 2	10	(y) 13,561 16 7	47,3
Champion ef Gold Mines of India, Limited	325,000	650,000	10	42/9	43/9	10	325,000 0 0	146,220 8 6	45	69,468·511	484,497 0 11	4,892·68	468 2 2	484,960 2 3	709 18 1	20	(y) 14,120 16	48,2
Coregum G Mining Company of India, Limited ..	Ord 290,000	481,544	10	13/6	14/6	10	240,772 0 0	39,057 18 0	7½	51,147·101	356,854 8 2	5,433·03	530 17 2	357,385 5 4	17,4 8 10	5	(x) 1,301 18 7	19,0
	Pref. 120,000	240,000	10	19/6	20/6	10	120,000 0 0		17½									
Nundydroo Mines Limited	288,000	566,000	10	61/0	62/0	10	288,000 0 0	205,175 0 0	72½	114,081·672	794,842 19 9	9,002·58	869 14 8	795,712 1 5	39,14 8	30	(y) 59,608 14 10	98,9
Total ..	1,628,000	3,157,544	..	...	..	...	1,578,772 0	558,203 6 6	35·36	331,856·153	2,314,032 13 3	25,344·66	2,393 13 3	2,316,426 6 6	115,029 12 9	..	98,593 6 7	213,6
																	Increase for 19	
																	Decrease for	
B. PRODUCING GOLD, BUT NOT PAYING DIVIDENDS. Nil.	.....	...	...	.....	...	.....	.....	...	...	.....	.....	.....	.....	.....	.....	...	.....	
Total ...	.....	...	...	.....	...	.....	.....	...	...	.....	.....	.....	.....	.....	.....	...	.....	
																	Increase for	
																	Decrease for 1	
C. WORKING, BUT NOT PRODUCING GOLD. Nil.	.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	
Total ...	.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	
Total of A, B and C ...	1,628,000	3,157,544	...	...	...	..	1,578,772 0 0	558,203 6 6	35·36	331,856·153	2,314,032 13 3	25,344·66	2,393 13 3	2,316,426 6 6	115,029·12 9	..	98,593 6 7	213,62
																	Increase for 19	
																	Decrease for 19	

Nominal Capital £ Stg.	Number issued
610,000	1,220,000
325,000	650,000
(Ord. 290,000	481,544
(Pref. 120,000	240,000
288,000	566,000
1,628,000	3,157,54
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
1,628,000	3,157,
.....	.....
.....	.....

Mysore for the years 1936 and 1937.

Table 1.

1937.

Shares			Paid-up Capital		Dividends Paid		Fine Gold and Silver Produced					Royalty Payable to Government				Total dividends paid up to date £ Stg.	Remarks
Par Value, Shillings	December Prices		Per Share, Shillings	Total £ Stg.	Amount £ Stg.	Percentage of Paid-up Capital	Mint Fine Gold Ounces	Value £ Stg.	Mint Fine Silver Ounces	Value £ Stg.	Total value of Fine Gold and Silver £ Stg.	At 5 per cent on the value of gold and silver produced, less refining charges £ Stg.	Percentage on dividends (X) or adjusted profits (Y) as per sanctioned sliding scale (f) Rate	Amount £ Stg.	Total £ Stg.		
	Min.	Max.															
10	22/6	23/6	10	610,000 0 0	167,750 0 0	27½	98,068·830	683,479 15 1	5,522·81	542 18 6	684,022 13 7	84,017 10 9	10	(y) 14,094 13 1	48,112 3 10	(b) 11,266,269 13 9	(a) Values are taken from Companies' reports.
10	41	42	10	325,000 0 0	136,125 0 0	42½	69,998·806	487,811 17 10	5,120·82	498 9 7	488,310 7 5	24,251 18 4	15	(y) 17,546 13 2	41,798 11 6	5,466,811 17 0	(b) In addition to this, the Company paid as dividends a sum of £87,500, being the realization by sale of pr to the Champion Reef Company.
10	10/9	11/9	10	240,772 0 0	30,088 12 0	5	50,740·386	353,755 16 2	5,304·29	595 1 10	354,290 18 0	17,600 15 3	5	(x) 1,001 5 9	18,602 1 0	4,020,582 6 6	
10	16 6	17/6	10	120,000 0 0		15											(c) In addition to this amount, £8,843-15-0 on the valuation of 2s. 6d. per share on 70,750 shares Jibutil Gold Mines of Anantapur, Ltd., were dist on 13th December 1911.
10	53/8	54/8	10	288,000 0 0	188,950 0 0	65	111,907·204	779,810 7 1	8,694·65	871 16 8	780,682 3 9	38,638 0 11	25	(y) 46,292 7 8	84,930 8 7	(c&d) 4,254,904 9 4	(d) Includes £140,652-19-10 paid by the then Nund Gold Mining Co., Ltd.
...	...	...	..	1,578,772 0 0	519,863 12 0	32·23	330,710·223	2,304,857 16 2	24,642·07	2,448 6 7	2,307,306 2 9	114,508 5 8	...	78,984 19 8	193,448 4 11	25,058,801 4 0	(e) Includes £30,682-11-11, paid by the Coromandel Gold Co. of India, Ltd., and £19,600-5-6 paid by the West and the Mysore Wynaad Gold Companies,
...	...	..	...	.....	.....	...	.....	.....	.....	54 18 4	.....	.....	...	.....	.....	.....	(f) Royalty is calculated at two-thirds of the rate sh this column.
...	...	...	...	.....	38,339 14 6	3·13	1,145·930	9,174 17 1	702·59	.....	9,120 3 9	521 7 6	...	19,658 6 1	20,179 14 5	.....	
...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	
...	...	..	...	.....	.....	...	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	
...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	
...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	
...	...	..	...	.....	.....	...	.....	.....	.....	.....	.....	.....	..	.....	.....	.....	
14	...	..	...	1,578,772 0 0	519,863 12 0	32·23	330,710·223	2,304,857 16 2	24,642·07	2,448 6 7	2,307,306 2 9	114,508 5 8	...	78,984 19	193,443 4 11	(e) 25,058,801 4 0	
...	...	...	...	.....	.....	...	.....	.....	.....	54 18 4	.....	.....	...	.....	.....	.....	
...	...	...	...	.....	38,339 14 6	3·13	1,145·930	9,174 17 1	702·59	.....	9,120 3 9	521 7 6	...	19,658 6	20,179 14 5	.....	

Machinery and Plant in use at Mines in

SPECIF CA

NAME AND SITUATION OF MINE	STEAM POWER																																	
	Boilers						Steam Engines																													
	Number		Aggregate Area and Capacity (of those in use)				Winding and Hauling			Pumping			Air Compression			Locomotives			For other purposes			Total Maximum B. H. P. developed													
	Total	In use	Grate Area Sq. feet	Heating Surface, Sq. feet	Maximum Evaporative Capacity, Gallons per hour	Actual Evaporation, Gallons per hour	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed													
							Total	In use		Total	In use		Total	In use		Total	In use		Total	In use															
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	1	1	10·00	183·00	120·00	50·00	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...												8,572
2. The Champion Reef Gold Mine do do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...												1,961
3. The Ooregum Gold Mine do do	11	5	186·50	5,056·00	2,741·00	2,065·00	1	1	950	...	...	...	1	...	...	...	...	...	...	...	...	950												2,206
4. The Nundydroog Gold Mine do do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...												2,914
5. The Mysore Chromite, Ltd., Mysore Taluk, Mysore District	2	2	36·00	363·00	150·00	105·00	2	2	28	...	...	...	...	...	...	...	...	...	...	...	...	28												76
Total	14	8	226·50	5,602·00	3,011·00	2,220·00	3	3	978	...	...	...	1	...	...	...	...	...	...	...	...	978												10,729
Total for 1936	15	9	226·50	5,830·00	3,011·00	2,220·00	4	3	978	...	...	...	1	...	...	...	...	...	...	...	...	978												11,012

Boilers classed according

TYPE OF BOILER	Number		Aggregat	
	Total	In use	Grate Area, Sq. feet	Heating Sq. f
Lancashire	7	2	104·00	1,
Vertical	4	4	60·00	
Horizontal	1	1	10·00	
Babcock and wilcox ...	2	1	52·50	2
Total ...	14	8	226·50	6
Total for 1936 ...	15	9	226·50	6

State of Mysore during the year 1937.

ON No. 1.

Table 2.

PS	Annual consumption B. T. U.	ELECTRICITY — MOTORS — Cauvery Power: Number Total	Number In use	Used for	Nominal H. P.	Rating in H. P.	Average constant H. P. absorbed	Annual consumption B. T. U.	Kolar Mines Power: Number Total	Number In use	Used for	Nominal H. P.	Maximum H. P. developed	Annual consumption B. T. U.	REMARKS
14	224,298	59	58	7 Air Compressors ... ... 5 Mill .. .. 15 Ventilating Fans ... ... 12 Pumps ... ... 4 Slimes Plant .. .. 9 Tube Mills ... ... 1 Mortar Mill ... ... 4 Tramming ... ... 1 Battery charging	5,046·00	4,256	3,430	22,419,597	71	66	9 Air Compressors ... ... 2 Converter Set ... ... 2 Fans ... ... 2 Electric Locomotives ... ... 3 Stone Crushers ... ... 17 Hoists ... ... 2 Fitting Shop .. .. 3 Saw Mills ... ... 1 Cyanide Dept. (Driving Machines) ... 8 Pumps ... . 2 Blowers ... ... 2 Motor Generator Set ... 2 Mill ... ... 2 Tube Mill ... ... 2 Slimes Plant ... ... 2 Furnaces ... ... 3 Cranes ... ... 2 Timber Impregnation Plant ...	8,640·75	4,194·00	5,628,828	
4·24	147,184	28	28	1 Air Compressors ... ... 1 Mill ... ... 5 Ventilating Fans ... ... 6 Pumps ... ... 3 Slimes Plant ... . 4 Tube-Mills ... . 1 Filter Plant ... ... 1 Cooler	5,250·00	4,869	3,597	23,510,050	69	69	7 Air Compressors ... ... 2 Stone Crushers ... ... 16 Pumps ... ... 1 Endless Ropeway ... ... 18 Hoists ... ... 3 Fitting Shop ... ... 1 O'Donovan Furnace ... .. 2 Circular and Band Saws ... ... 1 Mortar Mill ... ... 1 Crane ... ... 1 Booster ... ... 2 Blowers ... . 1 Oil Filter ... . 2 Welding ... . 1 James Table .. .. 1 Slag Treatment ... ... 1 Slimes Plant ... ... 1 Weigh Bridge ... . 1 Rotap Shaker ... ... 6 Fans	6,422·75	4,665·25	5,995,050	
18·41	198,889	47	42	6 Air Compressors ... ... 1 Mill ... ... 2 Cyanide and Slimes Plant .. 9 Pumps ... . 20 Ventilating Fans ... ... 4 Tube Mills	5,156·00	4,033	2,898	18,942,100	50	50	22 Hoists and Accessories ... .. 8 Air Compressors ... ... 1 Picking Floor ... . 1 Fitting Shop ... ... 1 Carpenters' Shop... ... ... 1 Extractor House ... ... 1 Assay Office Crusher .. ... 1 Concentrating Table ... ... 1 Printing Press .. ... 1 Mortar Mill ... ... 1 Endless Ropeway ... ... 4 Pumps .. .. 2 Mills ... ... 1 Cyanide works ... . 1 Blacksmith Shop Fan .. ... 4 Dairy ... ... 1 Zinc Lathe .. ... 1 Jumper Shop. ... 2 Welding ...	4,802·50	4,857·50	4,705,954	
16·56	225,295	46	45	10 Air Compressors ... ... 2 Mill ... . 10 Ventilating Fans ... .. 14 Pumps .. .. 8 Slimes Plant ... . 8 Tube Mills ... ... 1 Vortex Mixer	6,794·50	5,424	3,996	26,049,800	123	117	35 Hoists and Accessories ... ... 6 Stone Breakers ... . 30 Pumps ... ... 8 Fitting Shop ... . 1 Mortar Mill ... ... 2 Slimes Plant ... . 5 Smith Shop .. .. 1 Moulding Shop ... ... 3 Cranes ... ... 3 Air Compressors ... ... 2 Battery charging set ... 5 Jumper Shop . ... 8 Fans ... ... 2 Sorting quartz .. ... 2 Carpenters shop ... ... 3 Mill ... ... 1 Bath Furnace	10,698·75	5,107·00	9,223,703	
2·28	6,566	9	9	7 Pumps ... — ... ... 2 Winches	209.00	125	...	185,260	...	...	.....				
504·63	801,682	189	132	.....	22,455·50	18,707	13,911	91,106,827	313	303	.....	29,894·75	18,823·75	25,563,535	
512·41	758,081	175	168	.....	21,500·50	17,943	13,880	87,795,724	292	281	.....	28,138·10	20,724·50	22,828,419	

Type.

AREA AND CAPACITY (of those in use)			
...face,	Maximum Evaporative Capacity, Gallons per hour	Actual Evaporation, Gallons per hour	
·00	1,176·00	740·00	
·00	416·00	360·00	
·00	50·00	·00	
·00	1,840·00	1,[illegible]0·00	
·00	3,011·00	2220·00	
·00	3,011·00	2,220·00	

Machinery and Plant in use at Mines in the Sta

SPECIFICATION No

MINING MACHINERY

NAME AND SITUATION OF MINE	WINDING ENGINES AND HOISTS																		PUMPING ENGINES AND PUMPS (MINE PUMPS ONLY) (a)									AIR COMPRESSOR							
	Surface								Underground				Miscellaneous						Steam				Electric			Compressed Air			Steam			Electric	
	Steam			Electric			Compressed Air		Electric		Compressed Air		Electric		Compressed Air				Number				Number			Number			Number			Number	
	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Total	In use	Maximum capacity in gallons per hour	Average quantity of water pumped, Gallons per hour	Number		Maximum capacity in gallons per hour	Average quantity of water pumped, Gallons per hour	Number		Maximum capacity in gallons per hour	Average quantity of water pumped, Gallons per hour	Number		Average quantity of free air delivered per minute, Cubic feet	Number		Average quantity of f...
	Total	In use		Total	In use		Total	In use		Total	In use		Total	In use		Total	In use																
The Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	...	5	5	3,045	8	8	1,060	7	7	857	18	18	329	2	2	8	...	..	...	..	..	...	...	12	12	35,460	24,920	52	25	40,000	14,500	...	...	...	9	9	14,0
The Champion Reef Gold Mine	do	do ...	...	...	...	...	3	3	1,560	4	4	223	2	2	1,350	46	46	1,229	3	3	45	...	...	...	..	..	..	..	8	8	37,007	4,313	11	9	9,220	1,296	...	...	..	6	6	19,1
The Ooregum Gold Mine	do	do ...	3	3	1,775	4	4	1,345	2	1	45	5	5	2,605	33	31	471	3	3	95	...	...	...	..	..	..	..	..	7	54,000	15,891	11	(b) 8	..	1	...	...	8	8	8,9
The Nundydroog Gold Mine	do	do ...	1	...	...	5	5	3,810	2	2	470	10	10	1,955	37	37	53	4	4	60	1	1	5	...	...	..	..	21	19	150,970	82,052	81	31	25,500	2,117	...	...	..	12	12	23,2
	Total ...		4	3	1,775	17	17	9,760	16	15	1,798	24	24	7,767	134	132	2,092	12	12	228	1	1	5	..	...	...	...	48	46	337,437	77,176	105	73	74,720	13,412	1	...	..	35	35	66,4
	Total for 1936 ..		4	3	1,775	18	18	10,860	15	14	1,688	21	21	8,887	123	118	2,690	12	12	228	1	1	5	..	..	...	...	45	43	307,237	66,290	107	73	79,540	17,003	1	...	..	34	34	64,4

(a) Not including pumps for mills, cyanide works, etc.

Table 3

Average quantity of free air delivered per minute, Cubic feet	Average air pressure in receiver	Rock Drills: Average Number in use: Stoping	Rock Drills: Average Number in use: Development	Rock Drills: Approximate quantity of free air consumed per minute	Ore Feeders: Number: Total	Ore Feeders: Number: In use (average)	Ore Feeders: Type	Crushing, Grinding and Amalgamating: Rock breakers: Number: Total	Rock breakers: Number: In use	Rock breakers: Type	Stamps: Number: Total	Stamps: Number: In use	Stamps: Weight in lbs. of each head	Stamps: Number of drops per minute	Stamps: Height of drop in inches	Stamps: Depth of discharge in inches	Screens: Kind of Screen	Screens: Number of holes per sq. inch	Tube Mills: Number: Total	Tube Mills: Number: In use	Tube Mills: Size	Sands Plant: Number of Vats: Total	Sands Plant: Number of Vats: In use	Sands Plant: Total Capacity of Vats, Tons	Total Capacity of Plant for 24 hours	Cyaniding: Slimes Plant: Number of Collectors: Total	Number of Collectors: In use	Number of Agitators: Total	Number of Agitators: In use	Number of Agitators: Type	Vacuum Filters: Type	Total Capacity of Plant for 24 hours, Tons	REMARKS
	lbs. per sq. in.			Cubic feet																														
14,028	47	22·00	70·00	14,450·00	20	20	Challenge	4	4	Bigelow Jaw Crusher	100	100	1,150	98	8·00	2·50	Woven wire	9 & 64	5	5	18′×6′	...	...	...	...	3	3	7	7	Mechanical and Pachuca.	Butters	750	
19,198	51	39·00	50·00	10,857·00	12	8	Do ...	4	2	Blake Marsden	60	40	1,250	96	8·00	3·00	Do	9	7	4	19′×4½′	...	...	...	...	4	4	9	9	Brown Pachuca.	Butters	500	
8,932	44	15·50	57·59	12,002·50	14	13	Do ...	4	4	2 Do 2 Gates	65	65	1,300	96	9·00	2·50	Woven wire	9	4	4	(3) 22′×5½′ (1) 18′×6′	...	...	..	...	5	5	4	4	Mechanical	Butters	1,100	(b) used occasionally
23,262	59	21·38	75·26	12 892·00	16	16	Do ...	4	4	Jaw ...	70 10	70 10	1,250 850	96	9·00	2·00	Do ...	9	5	5	(1) 18′×6′ (4) 16′×6′	...	...	...	...	4	4	7	7	Brown Pachuca.	Do	1,065	
65,420	50	97·88	252·85	50,203·50	62	57	...	16	14	...	305	285	1,280	97	8·50	2·50	...	...	21	18	...	...	...	...	...	16	16	27	27	...	...	3,415	
64,906	51	95 95	286·61	47,931·50	64	58	...	16	14	...	320	290	1,280	97	8·50	2·50	...	...	22	19	...	...	...	..	...	16	16	27	27	...	...	3,202	

Statement of work done and number of persons employed at Mines working in the State of

NAME AND SITUATION OF MINE	MINING				TONS OF MATERIAL TREATED								
					ORE					TAILINGS			
	Feet driven (including shafts sunk)	Shafts sunk (feet)	Stoping (cubic fathoms)	Total material excavated (tons)	Raised to surface	Percentage sorted out as waste	Ore obtained	Milling and amalgamating: Crushed by stamps and tube mills	Milling and amalgamating: Crushed per stamp per 24 hours	Sands and slimes treated by cyanide	Aggregate amount treated in mills and by tailings process	Europeans	Anglo-Indians
GOLD.													
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District ...	18,730·50	652·00	3,686·56	269,505·37	216,084·00	6·43	200,914·00	(a) 207,381	8·95	207,381	414,762	48	6
2. The Champion Reef Gold Mine do do ...	8,947·00	1,556·00	5,664·72	315,596.01	167,127·00	9·77	150,792·00	(b) 151,050	11·15	151,050	302,100	41	3
3. The Ooregum Gold Mine do do ...	12,944·00	437·00	4,506·79	167,866·85	(c)171,716·00	12·18	150,807·00	(d) 155,338	11·75	296,740	452,078	50	3
4 The Nundydroog Gold Mine do do ...	22,410·00	1,192·00	9,651·69	361,573·00	259,161·00	9·26	235,162·00	(e) 253,700	11·11	355,000	608,700	43	15
Total for Gold Mines ...	62,031·50	3,777·00	28,509·76	1,014,541·83	814,088·00	9·23	737,675·00	767,469	10·87	1,010,171	1,777,640	182	24
The Indian Mines Development Syndicate, Ltd., Manighatta Block, Kolar Taluk, Kolar District, Special P.L. No. 771.	...	...	...	...	...	...	...	...	...	...	...	...	...
OTHER MINERALS.													
MANGANESE.													
5. The Keshapur Mining Co., Keshapur Block, Holalkere Taluk, Chitaldrug District, M. L. No. 176	...	...	...	...	...	...	1,012·20	...	...	...	...	...	...
Keshapur Tank Block do do P. L. No. 768—803 ...	...	...	...	...	...	...	345·52	...	...	...	...	...	...
6. The Mysore Iron Mines (Government area), Bikkonahalli Block, Shimoga Taluk, Shimoga District.	...	...	...	...	...	...	1,289·84	...	...	...	...	...	...
7. Messrs. V. Manickavelu Mudaliar & Son, Hulikatte Block, Davangere and Jagalur Taluks, Chitaldrug District, M. L. No. 177. ...	...	...	...	...	...	...	1,548·74	...	...	...	...	...	...
8. Mr. H. D. Coggan's Block, Sadarahalli, Holalkere Taluk, Chitaldrug District, P. L. No 7:7—815	...	...	...	...	...	...	30·21	...	...	...	...	...	...
9. Messrs. Narayan Das Girdhardas and Gadigai Channappa, Kalkatti Matti Block etc., Kumsi Sub-Taluk, Shimoga District, P.L. No. 801. ...	...	...	...	...	...	...	112·00	...	...	...	...	...	...
Janahar Block etc., Chiknayakanhalli Taluk, Tumkur District, P.L. No. 792—828	...	...	...	...	...	...	560·00	...	...	...	...	...	...
10. Mr. K. N. Guruswamy's Block, Mattighatta Village, Shikarpur Taluk, Shimoga District, P.L. No. 785.	...	...	...	...	...	...	112·00	...	...	...	...	...	...
11. Mr. B. S. Ameer Ahmed's Block, Nalen koppa, Shikarpur Taluk, Shimoga District, P.L. No. 797.	...	...	...	...	...	...	1,608·00	...	...	...	...	...	...
12. Messrs. Oakley Duncan and Co., Ltd., Mahadevpur Block, Holalkere Taluk, Chitaldrug District, M.L. 179.	...	...	...	...	...	...	245·34	...	...	...	...	...	...
CHROME.													
13 The Mysore Chromite, Ltd., Shinduvalli Mine, Mysore Taluk, Mysore District, M. L. No. 147	2,122	161·00	161·00	19,928·16	17,258·29	...	(f) 10,196·32	...	...	...	...	...	1
Pensamudra Block, M. L. No. 174 and Lakshmidevarahalli Block, P. L. No. 786—821, Arsikere Taluk, Hassan District ...	...	...	...	...	...	...	3,139·08	...	...	...	...	...	...
14. The Government Chrome Committee (Government area), Byrapur Mine, Channarayapatna Taluk, Hassan District	...	...	...	...	...	...	3,983·84	...	...	...	...	...	...
Tallur Mine, Mysore Taluk, Mysore District	...	...	...	...	...	...	1,185·52	...	...	...	...	...	...
15 Messrs. V. Manickavelu Mudaliar & Son, Bhaktarhalli Block, Channarayapatna Taluk, Hassan District, M. L. No. 158	...	...	...	...	...	...	3,976·00	...	...	...	...	...	...
Chikkonhalli Block, Channarayapatna Taluk, Hassan District, M. L. No. 159	...	...	...	...	...	...	6,048·00	...	...	...	...	...	...
Jambur Block, Channarayapatna Taluk, Hassan District, M. L. No. 160	...	...	...	...	...	...	756·00	...	...	...	...	...	...
16. Messrs. Oakley Duncan & Co. Ltd. Sunkadahalli Block, Arsikere Taluk, Hassan District, M. L. No. 178	...	...	...	...	...	...	182·56	...	...	...	...	...	...
17. Messrs. Oakley Bowden & Co. Ltd., Chikkattur Block, Mysore Taluk, Mysore District, M. L. No. 155	...	...	...	...	...	...	100·64	...	...	...	...	...	...
MAGNESITE.													
18. Messrs. The Tata Iron & Steel Co., Ltd., Dodkanya Block, Mysore Taluk, Mysore District, M. L. No. 150	...	...	...	...	...	...	2,667·06	...	...	...	...	...	...
IRON ORE.													
19. The Mysore Iron Mines (Government area), Kemmangundi, Tarikere Taluk, Kadur District	...	...	...	...	...	...	34,210·40	...	...	...	...	...	...
Thanigebyle Quarries, Tarikere Taluk, Kadur District	...	...	...	...	...	...	2,167·20	...	...	...	...	...	...
DOLOMITE.													
20. The Mysore Iron Mines (Government area), Shankar Mines, Kumsi Taluk, Shimoga District	...	...	...	...	...	...	3,693·76	...	...	...	...	...	...
KAOLIN.													
21. The Kolar Brickmaking Co., Ltd., Karadibande Block, Malur Taluk, Kolar District, M. L. No. 154	...	...	...	...	...	...	1,671·71	...	...	...	...	...	...
Thinnalu Block, Hoskote Taluk, Bangalore District, M. L. No. 175..	...	...	...	...	...	...	1,371·19	...	...	...	...	...	...
22. Mr. V. L. Venugopal's Block, Karadibande Hosaballi, Malur Taluk, Kolar District, P. L. No. 808.	...	...	...	...	...	...	6·72	...	...	...	...	...	...
23. Mr. B. S. Shabuddin's Block, Doddurkarapanahalli, Bowringpet Taluk, Kolar District, P. L. No. 771—809	...	...	...	...	...	...	4·48	...	...	...	...	...	...
24. Mysore Stone-ware Pipes and Potteries, Ltd., Thammanahalli Quarry, Bangalore Taluk, Bangalore District, P.L. No. 818	...	...	...	...	...	...	789·60	...	...	...	...	...	...
Alasandra Block, Bangalore Taluk, Bangalore District, P.L. No. 819 ...	...	...	...	...	...	...	5·60	...	...	...	...	...	...
Sasuveghatta etc., Thammenhalli, Nelamangala Taluk, Bangalore District, P.L. No. 820.	...	...	...	...	...	...	738·60	...	...	...	...	...	...
Kadle gudda etc., Chitaldrug Taluk, Chitaldrug District	...	...	...	...	...	...	23·52	...	...	...	...	...	...
25. Mysore Geological Department (Government area), Gollahalli, Nelamangala Taluk, Bangalore District.	...	...	...	...	...	...	112·00	...	...	...	...	...	...
HIRIYUR SLABS.													
26. Mysore Geological Department (Government area), Yerradakatte Quarry, Hiriyur Taluk, Chitaldrug District	...	...	...	...	...	...	6,938 sq. ft.	...	...	...	...	...	...
COPPER.													
27. Mr. B. S. Ameer Ahmed, Kalkunda, Nanjangud Taluk, Mysore District P.L. No. 799.	...	...	...	...	...	...	128·80	...	...	...	...	...	...
MICA.													
28. Mr. K. Venkataram Sarma's Block, Vadesamudra, Seringapatam Taluk, Mysore District	...	...	...	...	...	...	1·12	...	...	...	...	...	...
SLATESTONE.													
29. Mr. G. Channaveerappa's Block, Hathyal, Tiptur Taluk, Tumkur District, P. L. No 778-814	...	...	...	...	...	...	5·04	...	...	...	...	...	...
FELSPAR.													
30. The Mysore Geological Department (Government area), Settihalli Block, Bangalore Taluk, Bangalore District	...	...	...	...	...	...	128·20	...	...	...	...	...	...
LIMESTONE.													
31. The Mysore Iron Mines (Government area), Kondli, Chiknayakanhalli Taluk, Tumkur District	...	...	...	...	...	...	1,383·20	...	...	...	...	...	...
Bhadigund Limestone Quarries, Chennagiri Taluk, Shimoga District ...	...	...	...	...	...	...	5,645·92	...	...	...	...	...	...
SOAPSTONE.													
32. Mr. T. L. Narasinga Bhan's Block, Tiptur Taluk, Tumkur District, C. L. No. 127—130	...	...	...	...	...	...	70·56	...	...	...	...	...	...
33. Mr. G. Channaveerappa's Block, Tiptur Taluk, Tumkur District, C. L. No. 128--131	...	...	...	...	...	...	14·56	...	...	...	...	...	...
34. Messrs. Srichand Jeevaji & Co., Tiptur Taluk, Tumkur District, C. L. No. 129	...	...	...	...	...	...	39·20	...	...	...	...	...	...
QUARTZITE.													
35. TheMysore Geological Department (Government area), Settihalli, Bangalore Taluk, Bangalore District	...	...	...	...	...	...	51 52	...	...	...	...	...	...
Peenya, Bangalore Taluk, Bangalore District	...	...	...	...	...	...	129·36	...	...	...	...	...	...
CRUDE GRAPHITE.													
36. The Mysore Geological Department (Government area), Ganachapur Mine, Bowringpet Taluk, Kolar District	...	...	...	...	...	...	358·96	...	...	...	...	...	...
Total for other Mines ...	2,122	161·00	161·00	19,928·16	17,258·29	...	91,190·09	..	...	...	...	...	..
Grand Total ...	65,153·50	3,938·00	28,670·76	1,034,469·99	831,346·29	9·23	828,865·09	767,469	10·87	1,010,171	1,777,640	182	24
Grand Total for 1936 ...	69,283·00	4,412·00	27,935·38	1,026,189·85	815,986·00	10·28	808,773·30	734,187	10·76	650,868	1,772,578	184	21

sons employed at Mines working in the State of Mysore during the year 1937.

Table 4.

TONS OF MATERIAL TREATED							PERSONS EMPLOYED												
ORE					TAILINGS		BELOW GROUND					ON SURFACE							
			Milling and amalgamating										Indians						
Percentage sorted out as waste	Ore obtained	Crushed by stamps and tube mills	Crushed per stamp per 24 hours	Sands and slimes treated by cyanide	Aggregate amount treated in mills and by tailings process		Europeans	Anglo-Indians	Indians	Total	Tons excavated per man per annum	Europeans	Anglo-Indians	Males	Females	Children under 12 years	Total	Tons handled per person per annum	Total number of persons employed below ground and on surface
6·43	200,914·00	(a) 207,381	8·95	207,381	414,762		48	63	4,515	4,626	58·26	44	97	2,147	285	...	2,673	161·20	7,199
9·77	150,792·00	(b) 151,050	11·15	151,050	302,100		41	37	3,284	3,362	64·13	37	60	1,355	226	112	1,800	167·33	5,162
12·18	150,807·00	(d) 155,388	11·75	296,740	452,078		50	36	2,772	2,858	58·74	35	58	1,459	192	80	1,824	247·35	4,682
9·26	235,162·00	(e) 253,700	11·11	355,000	608,700		43	104	4,311	4,458	81·11	44	86	1,980	270	..	2,380	255·76	6,838
9·23	737,675·00	767,469	10·87	1,010,171	1,777,640		182	240	14,882	15,304	66·29	160	301	6,941	983	192	8,577	207·26	23,881
..	...	...	...	...	...		...	...	182	182	...	3	...	172	1	...	176	...	358
...	1,012·20	...	...	...	...		...	...	6	6	...	...	...	35	33	5	73	...	79
...	345·52	...	...	...	...		..	...	...	...	...	...	...	26	29	5	60	..	60
...	1 289·84	...	...	...	...		..	...	...	...	...	...	...	20	10	...	30	...	30
..	1,548·74	...	...	...	...		...	...	...	...	...	...	...	15	7	6	28	...	28
...	30·21	...	...	...	...		..	...	...	...	...	...	...	10	6	...	16	...	16
...	112·00	..	...	...	...		...	...	..	...	...	...	...	80	30	8	118	...	118
..	560·00	...	...	...	...		...	...	...	...	...	...	...	65	85	18	168	..	168
...	112·00	..	...	...	...		...	...	..	...	...	...	...	30	45	...	75	..	75
...	1,008·00	..	...	...	...		...	...	...	...	...	...	...	25	...	...	25	..	25
...	245·34	...	...	...	...		...	...	...	...	...	...	...	11	8	2	21	...	21
...	(f) 10,196·32	...	...	...	...		...	1	191	192	..	...	3	39	61	99	202	...	394
..	8,139·08	...	...	...	...		...	...	4	4	...	...	..	67	26	10	103	..	107
..	3,983·84	...	...	..	...		...	...	6	6	...	...	...	96	116	57	269	..	275
...	1,185·52	...	...	...	...		...	...	...	...	...	...	...	15	10	25	50	...	50
...	3,976·00		...	...	..		...	...	...	..	...	...	...	69	46	28	143	...	143
...	6,048·00	...	...	...	...		...	...	...	...	...	...	..	23	14	21	58	...	58
..	756·00	...	...	..	...		...	..	...	...	...	...	..	19	15	13	47	...	47
...	182·56	...	...	...	...		...	..	...	...	..	..	1	10	8	...	19	...	19
..	100 64	...	...	..	...		..	..	5	5	...	..	..	1	1	2	4	...	9
...	2,667·06	...	...	..	..		...	..	...	...	..	..	..	53	51	6	110	..	110
..	34,210·40	...	...	...	...		...	...	...	..	...	..	...	160	15	...	165	..	165
..	2,167·20	.	...	...	...		..	...	...	...	..	..	..	25	5	...	30	...	30
...	8,698·76	...	..	..	...		...	...	...	...	...	...	..	20	10	...	30	...	30
...	1,671·71	...	...	...	...		...	...	...	..	...	...	..	4	4	...	8	...	8
...	1,371·19	...	...	...	...		...	...	...	...	...	...	..	2	2	...	4	...	4
...	6·72	...	...	...	...		...	...	...	...	...	...	...	10	3	...	13	...	13
...	4·48	...	...	...	..		...	...	..	...	...	...	...	..	...	7	7	...	7
...	789·60	...	...	...	...		...	...	...	...	...	...	...	30	...	...	30	...	30
...	5·60	...	...	...	...		..	...	..	..	...	...	...	1	...	...	1	...	1
...	733·60	...	...	...	...		...	...	...	...	...	...	...	12	8	...	20	...	20
...	23·52	...	...	...	...		...	...	...	...	...	...	...	25	...	...	25	..	25
...	112·00	...	...	...	...		...	...	...	...	..	...	..	13	10	1	23	...	23
...	6,938 sq. ft.	...	...	...	...		...	...	..	...	...	...	...	10	7	2	19	...	19
...	128·80	...	...	...	...		..	...	...	...	...	...	...	4	...	...	4	...	4
...	1·12	...	...	...	...		...	..	...	...	..	...	...	18	2	...	20	...	20
...	5·04	...	...	...	...		...	..	...	...	...	...	...	2	2	...	4	...	4
...	128·20	...	...	...	...		...	...	...	...	...	...	...	13	13	2	28	...	28
...	1,388·20	...	...	...	...		...	...	...	...	...	...	...	20	10	...	30	...	30
...	5,645·9	...	...	...	...		...	...	...	...	...	...	...	20	10	...	30	...	30
...	70·56	...	...	...	...		...	...	...	...	...	...	..	15	...	...	15	...	15
...	14·56	...	...	...	...		...	...	...	...	...	...	...	6	...	..	6	...	6
...	39·20	...	...	...	...		...	...	...	...	...	...	1	3	...	2	6	...	6
...	51 52	...	...	...	...		...	...	...	...	...	...	...	...	..	...	...	...	...
...	129·36	...	...	...	...		...	...	...	...	...	...	...	9	5	2	16	...	16
...	358·96	...	...	...	...		...	..	...	...	...	...	...	22	25	14	61	..	61
...	91,190·09	..	...	...	...		...	1	394	395	...	3	5	1,314	733	335	2,390	...	2,785
9·23	828,865·09	767,469	10·87	1,010,171	1,777,640		182	241	15,276	15,699	66·29	163	306	8,255	1,716	527	10,967	207·26	26,666
10·28	808,773·30	734,187	10·76	650,868	1,772,578		184	216	14,404	14,804	69·22	162	304	7,362	1,543	406	9,777	212 67	24,581

REMARKS

(a) Includes 6,467 tons from waste dumps.

(b) Includes 258 tons from surface reserve stocks.

(c) Excess due to accumulation of rock underground by falls of ground shaling off, bursting, etc.

(d) Includes 1,253 tons from dumps; 2,808 tons from stock; and 470 tons crushed under Ooregum Nundydroog joint account.

(e) Includes 10,703 tons from dumps; 7,244 tons put to stock.

(f) Includes 15·00 tons of hand washed concentrates, 12·95 tons pebbles collected on surface. In addition 3·24 tons of magnesite was obtained.

Labour included under felspar.

Statement of quanti

NAME AND SITUATION OF MINE	Fuel						Electric Power				Timber			Granite			Cement	
	Indian Coal		Firewood				Cauvery Scheme		Kolar Mines									
	Tons used	Cost	Tons used	Cost	Total Cost	Cost per Ton milled	Total Cost	Cost per Ton milled	Total Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost
		£ Stg.		£ Stg.	£ Stg.	Shillings	£ Stg.	Shillings	£ Stg.	Shillings	C. ft.	£ Stg.	Shillings	Tons.	£ Stg.	Shillings	Tons	£ Stg.
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	1,242·67	1,719·79	...	...	1,719·79	0·17	37,924·71	3·66	11,682·91	1·13	152,765	10,356·60	1·00	26,459·43	4,869·62	0·47	3,940·24	11,884·01
2. The Champion Reef Gold Mine do do	948·39	1,370·97	325·79	239·99	1,610·96	0·21	38,381·58	5·08	12,090·27	1·60	71,149	7,985·98	1·05	36,861·25	4,211·00	0·56	3,177·47	10,087·58
3. The Ooregum Gold Mine do do	3,915·49	5,268·82	248·58	166·53	5,432·35	0·70	31,772·91	4·09	13,346·88	1·72	221,618	10,813·46	1·39	8,560·32	1,470·63	0·19	1,045·49	3,187·26
4. The Nundydroog Gold Mine do do	1,082·32	1,562·46	173·36	130·60	1,693·06	0·18	43,849·01	3·46	18,576·50	1·46	268,670	16,394·22	1·29	10,977·73	1,669·15	0·13	1,997·10	5,980·87
Total for Gold Mines ...	7,188·77	9,917·04	747·73	539·11	10,456·15	0·27	151,928·21	3·96	55,696·56	1·45	714,222	45,500·26	1·19	82,378·73	12,220·40	0·32	10,160·30	31,089·22
5. The Mysore Chromite, Ltd., Mysore Taluk, Mysore District, and Arsikere Taluk, Hassan District.	...	...	782·43	426·80	426·80	...	666·59	...	...	..	2,475	155·47	..	...	...	...	...	...
6. The Byrapur and Tallur Mines (Government areas), Channarayapatna Taluk, Hassan District, and Mysore Taluk, Mysore District.	...	...	...	...	...	...	...	...	...	...	59	8·83	...	...	...	...	...	...
7 Messrs. V. Manickavelu Mudaliar and Sons' Blocks, Channarayapatna Taluk, Hassan District, Davangere and Jagalur Taluks, Chitaldrug District.	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
8. Messrs. The Tata Iron & Steel Co., Ltd., Mysore and Nanjangud Taluks, Mysore District.	3·28	7·06	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
9. The Mysore Iron Mines (Government areas), Tarikere Taluk, Kadur District, and Channagiri and Shimoga Taluks, Shimoga District, and Chiknayakanahalli Taluk, Tumkur District.	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
10. The Keshapur Mining Company, Chitaldrug Taluk, Chitaldrug District.	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
Grand Total ...	7,192·05	9,924·10	1,530·11	965·41	10,882·45	0·27	152,594·80	3·96	55,696 56	1·45	716,756	45,664·56	1·19	82,378·78	12,220·40	0·32	10,160·30	31,089·22
Total for 1936 ..	7,336·47	9,842·38	1,276·11	917·25	10,959·63	0·29	146,001·55	3·97	50,422·78	1·37	751,987	47,489·24	1·29	60,294·55	11,900·78	0·32	10,116·56	30,988·77

N.B.—Cost per ton milled refers to Gold Mines only.

Average Wages per Month.

Indians	Europeans	Glass

ty and cost of materials consumed and wages paid at Mines working in the State of Mysore for the year 1937.

Cost per ton milled	Explosives: Blasting Gelatine Quantity	Blasting Gelatine Cost	Dynamite and other explosives Quantity	Dynamite and other explosives Cost	Detonators Number of boxes (100 per box)	Detonators Cost	Fuse Number of coils (24 feet per coil)	Fuse Electric fuse lighters	Fuse Cost	Total Cost	Cost per Ton excavated	Cost per Ton milled	Light: Candles Quantity	Candles Cost	Calcium Carbide Quantity	Calcium Carbide Cost	Total Cost	Cost per Ton milled	Mercury Quantity	Mercury Cost	Mercury Cost per Ton milled
Shillings	lbs.	£ Stg.	lbs.	£ Stg.	(a)	£ Stg.		Number	£ Stg.	£ Stg.	Shillings	Shillings	lbs.	£ Stg.	lbs.	£ Stg.	£ Stg.	Shillings	lbs.	£ Stg.	Shillings
1·15	155,566	12,545·61	55,502	4,054·48	5,736·18	1,250·45	47,048	12,300	2,470·18	20,800·61	1·51	1·96	1,231	34·64	326,244	3,780·42	3,815·06	0·37	225·00	54·06	0·005
1·24	2,883	248·21	136,917	10,040·48	2,986·25	671·90	56,951	23,349	9,067·60	19,048·19	1·21	1·73	585	16·26	273·043	3,964·22	3,980·48	0·53	153·00	53·08	0·007
0·41	75,975	6,110·22	41,830	3,075·08	3,281·00	661·78	43,994	2,590	1,372·35	11,220·02	1·34	1·41	1,096	31·08	148,510	1,731·85	1,762·93	0·23	300·00	69·94	0·009
0·47	181,562	14,610·09	45,547	3,334·60	5,918·00	1,200·34	97,823	14,600	3,106·92	22,251·95	1·23	1·75	1,655	44·33	373,730	4,653·81	4,698·14	0·25	300·00	66·71	0·005
0·81	415,986	33,509·13	279,796	20,485·19	17,918·43	3,784·47	275,816	52,839	9,037·00	66,815·77	1·32	1·74	4,567	126·31	1,121,527	13,630·30	13,956·61	0·36	978·00	243·81	0.006
...	6,918	915·81	...	..	322·36	125·20	4,332	...	286·60	1,327·61	...	·4	7,332	214·07	...	..	214·07	..	...	...	
..	135	17·72	(b) 1,264	51·60	25·00	7·08	790	...	27·56	103·91	...	...	...	...	...	...	...	...	...	...	...
...	...	...	106	11·70	7 70	2·80	165	...	7·66	22·16	..	..	...	...	...	...	...	..	...	..	...
...	...	...	(c) 2,939	92·75	21	7·74	1,097	...	34·81	134·80	...	...	...	..	...	...	...	...	.	...	...
...	...	...	(d) 4,951	120·13	34	12·75	1,478	...	74·80	207·68	...	...	...	...	...	...	...	..	..	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
0·81	423,069	34,442·66	289,056	20,761·37	16,274·04	3,939·99	283,678	52,839	9,467·93	68,611·98	1·32	1·74	11,899	340·38	1,121,527	13,630·30	14,170·68	0·36	978·00	243·81	0·006
0·84	466,862	37,942·10	262,945	19,188·68	16,514·57	4,038·22	282,457	82,938	9,176·17	70,351·07	1·36	1·68	12,218	309·33	1,063,486	12,573·92	12,883·25	0·35	1,128·00	252·21	0·007

Cyanide: Quantity	Cyanide Cost	Cyanide Cost per Ton treated	Cost per Ton milled	Zinc Quantity	Zinc Cost	
lbs.	£ Stg.	Shillings	Shillings	lbs.	£ Stg.	
99,282	3,639·22	0·85	0·35	25,661	414·68	
65,939	2,682·40	0·86	0·36	25,163	466·28	
157,920	5,842·53	0·39	0·75	25,413	384·87	
215,516	7,835·97	0·44	0·62	25,615	407·68	
538,607	20,000·12	0·89	0·52	101,852	1,673·01	
...	..	...	..	...	...	
...	...	...	..	...	...	
..	...	...	...	...	...	
..	...	...	...	...	...	
...	...	...	...	...	...	
...	...	...	...	...	...	
...	...	...	...	...	...	
538,607	20,000·12	0·89	0·52	101,852	1,673·01	
540,595	20,733·42	0 40	0·56	116,811	1,652·13	

	Covenanted £ Stg.	Uncovenanted £ Stg.	Rs.
Chief Underground Agents	98·75	...	...
Assistant Underground Agents	46·39	...	...
Foremen	30·19	9·60	94·00
Timbermen	24·77	14·60	...
Miners	19·49	11·00	...
Machine mestris	...	...	33·38
Machine coolies	...	...	21·13
Handjumper mestris	...	...	28·75
Handjumper coolies	...	...	18·13
Blasters	...	...	36·47
Timber mestris	...	...	31·56
Timber coolies	...	...	19·41
Stuff mestris	...	...	28·31
Stuff coolies	...	...	17·53
Skip road mestris	...	...	35·24
Skip road coolies	...	...	21·94
Landers, platmen and bellmen	...	...	24·68
Chief Engineers	...	...	...
Assistant Engineers	...	...	...
Carpenters	...	...	34·61
Smiths	...	...	40·06
Engine Drivers	...	(1) 46·94 (2) 26·06	
Boiler smiths	...	...	...
Surface coolies	...	...	...
Chief Surveyors	...	...	...
Assistant Surveyors	...	...	...
Chief Metallurgists	...	...	...
Assistant Metallurgists	...	...	...
Millmen	...	15·21	...
Fitters	...	...	(3) 41·50 (4) 36·50 78·50
Loco. Drivers	...	...	...
Average for above classes	45·20	12·60	35·66
Average for above classes in 1936	42·67	13·86	34·49

(1) First class.
(2) Second class

(3) Surface.
(4) Underground.

Table 5.

ES — Cost per Ton milled	WAGES — Total Amount	WAGES — Per Ton milled	Total of these costs per Ton milled	REMARKS
Shillings	£ Stg.	Shillings	Shillings	
0·08	209,634·02	20·22	31·51	(*a*) Includes 29·20 boxes of electric detonators.
0 09	124,717·46	16·51	30 05	
0·07	134,464·93	17·31	29 08	
0·07	189,485·43	14·94	25·54	
0·08	658,301·84	17·16	28·76	
..	7,849·05	...	..	Chromium.
..	2,314·90	...	...	Do. (*b*) Includes 1,035 lbs. gunpowder.
...	2,128·95	...	...	Chromium and Manganese.
..	976·80	...	...	Magnesite. (*c*) Includes 2,897 lbs. gunpowder.
...	7,281·15	...	..	(*d*) Includes 4,471 lbs. gunpowder. Iron ore, Manganese and Limestone.
...	734·25	...	...	Manganese.
0·08	679,586·94	17·16	28·76	
0·07	662,046·09	17·47	29·23	

Table of gold production and working costs at the Gold Mines wor

NAME AND SITUATION OF MINE	GOLD PRODUCTION																	
	From Mills and Tube Mills (current ore)					By Cyanide Process (current ore)					Total Production (current ore)				Re-treatment of Tail			
	Assay value of ore treated, Shillings per ton	Fine Gold	Value		Percentage recovered	Assay value of tailings, Shillings per ton	Fine Gold	Value		Percentage recovered	Fine Gold	Value		Percentage recovered	Assay value of tailings Shillings per ton	Fine Gold	Val	
		Ounces	£ Stg.	Shillings per ton			Ounces	£ Stg.	Shillings per ton		Ounces	£ Stg.	Shillings per ton milled			Ounces	£ Stg.	
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District ...	40·87	61,047·08	259,450·09	25·02	61·98	15·36	35,660·09	151,512·88	14·61	95·13	96,697·17	410,962·97	39·64	98·18	...	...	...	
2. The Champion Reef Gold Mine do do ...	39·97	57,511·75	244,424·94	32·36	80·97	7·61	12,316·88	52,346·74	6·98	91·08	69,828·63	296,771·68	39·29	98·31	...	...	...	
3. The Ooregum Gold Mine do do ...	28·98	32,162·12	136,689·01	17·60	73·39	6·83	10,408·76	44,237·23	5·70	89·98	42,570·88	180,926·24	23·29	97·14	0·60	7,959·26	33,826·86	
4. The Nundydroog Gold Mine do do ...	36·78	91,510·94	388,921·50	30·66	83·36	6·12	15,799·81	67,149·19	5·29	86·50	107,310·75	456,070·69	35·95	97·75	4·56	4,639·97	19,719·87	
Total ...	35·79	242,231·89	1,029,485·54	26·83	74·96	8·95	74,175·54	315,246·04	8·22	91·79	316,407·43	1,344,731·58	35·04	97·91	5·75	12,599·23	53,546·73	
Total for 1936 ...	37·44	241,395·50	1,025,930·88	27·95	74·65	9·50	75,139·24	319,316·27	8·70	91·56	316,528·74	1,345,247·15	36·65	97·88	4·79	14,859·62	63,153·39	

Value taken at 85 shillings per oz.

king in the State of Mysore during the year 1937.

Table 6.

NGS DUMPS,		FROM OTHER SOURCES		TOTAL PRODUCTION FROM ALL SOURCES		WORKING COSTS						Total Expenditure (including administration)		REMARKS
						MINING			ORE TREATMENT (CURRENT ORE)		RE-TREATMENT OF TAILINGS DUMPS			
									Milling, Tube-milling and Cyaniding		Tube-milling and Cyaniding			
Shillings per ton	Percentage recovered	Fine Gold Ounces	Value £ Stg.	Fine Gold Ounces	Value £ Stg.	£ Stg.	Shillings per ton excavated	Shillings per ton milled	£ Stg.	Shillings per ton treated	£ Stg.	Shillings per ton treated	Shillings per ton of current ore treated	Shillings per ton milled including cost of retreatment of old dumps	
...	...	(a)1,400·00	5,950·00	98,097·17	416,912·97	273,545·01	20·30	26·88	44,256·28	4·27	...	..	36·94	36·94	Fine gold figures for twelve months supplied by the Mining Companies are subject to final adjustment. (a) Obtained from partial dismantling of plant and plate scaling. (b) Recovered from an old Mill drain. (c) Obtained from quartz mined by Nundydroog Mine and accumulated matte.
...	...	(b) 185·50	788·38	70,014·13	297,560·06	170,674·29	15·83	22·60	29,064·29	3·85	..	...	32·47	33·47	
4·78	72·49	(c) 215·40	1,042·95	50,775·54	215,796·05	208,562·68	24·25	26·21	25,894·01	3·33	14,491·15	2·05	35·40	37·26	
3·89	86·88	...	..	111,950·72	475,790·56	293,747·44	16·25	23·16	41,177·87	3·24	16,975 62	3·23	30·68	31·97	
4·41	76·74	1,830·90	7,781·33	330,837·56	1,406,059·64	941,529·42	18·56	24·54	140,414·15	3·66	30,866·77	2·54	33·88	34·68	
4·15	86·68	547·47	2,826·75	331,935·83	1,410,727·29	932,512·02	18·41	25·40	135,965·79	3·70	34,438·34	2·26	35·07	36·01	

Number and Classification of fatal and serious accidents at Mines working in the State of Mysore during the year 1937.

Table 7.

NAME AND SITUATION OF MINE		Falls in Mines				In and at Shafts								Miscellaneous Below Ground									On Surface					Total due to			
		Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Whilst ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By explosives (other than misfires)	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By machinery	Boilers and steam pipes bursting, etc	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	Negligence	Recklessness	Unavoidable	Grand Total
Number of Class of Accident ...		i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii					
The Mysore Gold Mine, Bowringpet Taluk, Kolar District		...	...	..	0	..	...	...	..	...	...	...	0	3	...	2	1	3	1	3	2	25	40	1	...	...	2	3	2	6	35	43
The Champion Reef Gold Mine do do		...	...	...	0	...	...	1	...	1	...	1	3	17	...	1	1	5	...	10	..	30	64	...	...	1	3	4	7	4	60	71
The Ooregum Gold Mine do do		...	...	...	0	..	...	2	...	1	...	1	4	7	..	3	...	4	...	1	1	8	24	...	..	..	3	3	4	2	25	31
The Nundydroog Gold Mine do do		...	...	...	0	..	...	1	..	2	...	1	4	16	...	4	..	9	..	..	1	26	56	3	.	2	3	8	7	6	55	68
The Keshapur Mine, Holalkere Taluk, Chitaldrug District		.	...	...	0	...	...	...	...	...	...	...	0	...	...	..	...	..	..	...	...	...	0	...	...	..	1	1	...	...	1	1
Government Chrome Mines, Byrapur, Channarayapatna Taluk, Hassan District.		...	...	...	0	...	..	...	...	...	...	.	0	...	...	...	...	...	...	...	...	...	0	...	...	..	1	1	1	...	..	1
The Indian Mines Development, Syndicate, Manighatta Block, Kolar Taluk Kolar, District.		...	...	...	0	...	..	...	...	...	...	...	0	...	...	...	...	...	...	..	...	...	0	...	...	...	2	2	...	...	2	2
The Kemmangundi Mine, (Mysore Iron and Steel Works), Tarikere Taluk, Kadur District.		...	...	..	0	...	..	...	...	...	...	..	0	...	...	..	...	...	...	..	...	...	0	...	...	..	1	1	..	..	1	1
Total ..		0	0	0	0	0	0	4	0	4	0	3	11	43	0	10	2	21	1	14	4	89	184	4	0	3	16	23	21	18	179	218
Number due to	Negligence ...	0	0	0	0	0	0	2	0	1	0	0	3	0	0	7	1	6	0	1	0	1	16	0	0	0	2	2				
	Recklessness ...	0	0	0	0	0	0	2	0	0	0	1	3	0	0	3	1	5	1	0	2	3	15	0	0	0	0	0				
	Unavoidable ...	0	0	0	0	0	0	0	0	3	0	2	5	43	0	0	0	10	0	13	2	85	153	4	0	3	14	21				

Number of fatal and serious accidents per 1,000 persons employed at Gold Mines working in the State of Mysore during the year 1937.

Table 8.

NAME AND SITUATION OF MINE	Number per 1,000 due to			Total per 1,000	Total per 1,000 for the year 1935	Total per 1,000 for the year 1934	REMARKS
	Negligence	Recklessness	Unavoidable				
1. The Mysora Gold Mine, Bowringpet Taluk, Kolar District	0·28	0·83	4·86	5·97	6·84	7·70	In these columns, in order to avoid large and misleading figures in the case of mines employing less than 1,000 persons, the actual figures obtained for these mines have been modified in the following way:— If the actual figure is less than the average (for all mines), it is inserted here. If the actual figure is greater than the average, the excess above the average is reduced in proportion of the number of persons employed to 1,000. The figure inserted here is equal to the average plus this reduced excess.
2 The Champion Reef Gold Mine do do	1·36	0·77	11·62	13·75	13·66	17·08	
3. The Ooregum Gold Mine do do	0·55	0·43	5·84	6·62	8·43	13·23	
4 The Nundydroog Gold Mine do do	1·02	0·88	8·04	9·94	9·81	12·79	
Average for all mines ...	0·84	0·75	7·33	8·92	10·40	12·21	
Average for 1936 ...	1·00	0·74	6·66				

Number of persons killed in accidents at Mines working in the State of Mysore for the year 1937.

Table 9.

NAME AND SITUATION OF MINE	FALLS IN MINES				IN AND AT SHAFTS								MISCELLANEOUS BELOW GROUND									ON SURFACE					
	Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Winding, ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By explosives (other than misfires)	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By machinery	Boilers and Steam Pipes bursting, etc.	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	Grand Total
Number of Class of Accident ...	i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii		
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	..	...	...	0	...	...	...	...	...	...	...	0	2	...	1	1	1	...	...	...	1	6	...	...	...	1	1	7
2. The Champion Reef Gold Mine do do	...	...	...	0	...	...	1	...	1	...	...	2	6	...	...	1	3	...	...	...	1	11	...	...	...	2	2	15
3. The Ooregum Gold Mine do do	...	...	...	0	...	...	...	...	...	...	...	0	6	...	3	...	1	...	...	...	...	10	...	...	...	...	...	10
4. The Nundydroog Gold Mine do do	...	...	..	0	..	...	1	..	1	...	1	3	5	...	1	...	5	...	...	..	...	11	...	...	...	...	..	14
5. Govt. Chrome Mines, Byrapur, Channarayapatna Taluk, Hassan District ...	...	..	...	0	..	...	...	...	...	...	...	0	...	..	...	...	...	...	...	...	...	0	...	...	...	1	1	1
6. The Indian Mines Development Syndicate, Manighatta Block, Kolar Taluk, Kolar District.	...	...	...	0	...	..	...	...	...	...	...	0	...	...	...	...	...	...	...	...	..	0	...	...	...	1	1	1
7. The Kemmangundi Mine, (Mysore Iron and Steel Works), Tarikere Taluk, Kadur District	...	...	...	0	...	...	...	...	...	...	...	0	...	...	...	...	...	...	...	..	...	0	...	...	...	1	1	1
Total ...	0	0	0	0	0	0	2	0	2	0	1	5	19	0	5	2	10	0	0	0	2	38	0	0	0	6	6	49

Number of persons seriously injured in accidents at Mines working in the State of Mysore during the year 1937.

Table 10.

NAME AND SITUATION OF MINE	FALLS IN MINES				IN AND AT SHAFTS								MISCELLANEOUS BELOW GROUND									ON SURFACE					GRAND TOTAL
	Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Whilst ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By explosives (other than misfires)	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By machinery	Boilers and Steam Pipes bursting, etc.	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	
Number of Class of Accident ...	i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii		
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	..	0	...	..	...	...	...	...	...	0	3	...	3	...	2	1	3	2	24	36	1	...	...	1	2	40
2. The Champion Reef Gold Mine do do	...	...	...	0	...	...	...	.	...	...	1	1	22	...	1	...	2	...	10	...	29	64	...	...	1	2	3	68
3. The Ooregum Gold Mine do do	...	...	..	0	...	..	2	.	1	...	1	4	10	...	5	...	3	...	1	1	8	28	...	..	...	3	3	35
4. The Nundydroog Gold Mine do do	...	..	...	0	...	...	...	..	2	...	1	3	16	...	6	...	4	...	...	1	26	53	3	...	2	3	8	64
5. The Keshapur Mine, Holalkere Taluk, Chitaldrug District	...	...	...	0	...	...	...	...	..	...	...	0	...	...	...	...	...	...	...	...	...	0	...	...	...	1	1	1
6. The Indian Mines Development Syndicate, Manighatta Block, Kolar Taluk, Kolar District. ...	...	...	...	0	...	...	...	...	...	...	...	0	...	...	...	...	...	..	...	..	...	0	...	...	...	1	1	1
Total ...	0	0	0	0	0	0	2	0	3	0	3	8	51	0	15	0	11	1	14	4	87	183	4	0	3	11	18	209

Comparative table showing the mortality and other items at Gold Mines working in the

ITEMS — Year ...	MYSORE																					
	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1916
1. Number of separate accidents (fatal and serious) per 1,000 persons employed.	7·48	6·69	6·12	8·19	11·03	7·41	7·51	9·90	10·28	10·65	10·19	10·99	9·88	12·25	10·63	10·60	11·32	13·57	15·15	12·80	10·40	8·92	10·40
2. Death rate per 1,000 persons employed above ground	0·48	0·29	0·47	0·56	0·20	0·29	0·37	0·20	0·00	0·11	0·42	0·22	0·11	0·46	0·12	0·36	0·13	0·24	0·24	0·12	0·00	0·35	1·13
3. Death rate per 1,000 persons employed below ground	5·66	4·67	4·78	4·54	6·01	4·95	5·42	7·09	6·43	6·92	4·50	4·94	4·36	6·66	4·26	12·86	6·74	4·34	4·10	3·68	4·03	2·81	3·88
4. Death rate per 1,000 persons employed (above and below ground) ...	3·52	2·81	2·90	2·79	3·55	2·91	3·09	3·79	3·38	3·62	2·45	2·64	2·28	3·74	2·81	7·12	3·93	2·22	2·18	1·98	2·14	1·93	3·22
5. Number of persons employed for each 100,000 tons of ore crushed ...	3,288	3,333	3,434	3,475	3,554	3,689	3,462	3,169	2,890	2,792	2,924	2,963	2,884	2,797	2,924	3,159	3,031	3,071	3,169	3,140	3,129	3,112	766
6. Number of persons killed for each 100,000 tons of ore crushed ..	11·58	9·37	9·94	9·69	12·63	10·60	10·70	12·00	9·76	10·10	7·18	7·81	6·59	10·47	6·75	22·51	11·92	8·18	8·25	7·47	8·04	5·99	2·47
7. Number of persons employed for each £100,000 worth of gold obtained	1,188	1,185	1,264	1,304	1,317	1,442	1,435	1,270	1,188	1,156	1,151	1,165	1,173	1,093	1,237	1,309	1,341	1,420	1,575	1,606	1,628	1,698	578
8. Number of persons killed for each £100,000 worth of gold obtained	4·18	3·33	3·66	3·63	4·68	4·20	4·44	4·81	4·01	4·18	2·92	3·08	2·70	4·46	2·96	9·32	5·26	3·78	4·10	3·82	4·18	3·27	1·94
9. Average value (in shillings) of ore (gold obtained per ton crushed)	55·88	56·25	54·98	53·27	53·97	50·46	(a) 49·69	(a) 44·65	(a) 43·73	(a) 42·54	(a) 44·42	(a) 44·92	(a) 42·55	(a) 41·52	(a) 42·29	(a) 42·85	(a) 40·50	(a) 40·55	(a) 37·64	(a) 36·97	(a) 36·65	(a) 35·04	26·74

(a) Represents the average value of gold obtained from current ore crushed only and does not include value of gold obtained from retreatment of old dumps as in previ

State of Mysore and in the Transvaal.

Table 11

TRANSVAAL

917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	REMARKS
·97	10·18	12·09	13·89	23·58	18·89	16·92	18·02	20·71	18·93	29·43	34·11	37·47	36·11	40 89	46·16	44·08	42·10	40·76	39·47	38·25	
·78	1·07	0·68	0·92	0·69	0·75	0·87	0·85	0·68	0·46	0·83	1·14	0·94	0·64	0·68	0·62	0·70	0·76	0·56	0·67	0·57	
·84	3·12	3·16	3·05	2·87	2·64	3·18	3·27	3·03	2·93	3·53	2·72	3·20	3·18	2·98	2·90	2·88	2·57	2·76	2·70	2·74	
·59	2·47	2·41	2·38	2·19	1·85	2·50	2·56	2·32	2·20	2·75	2·24	2·58	2·47	2·81	2·28	2·29	2·04	2·12	2·10	2·09	
786	787	780	799	803	792	730	693	683	679	702	712	691	704	710	683	689	706	702	695	671	
·99	2·05	1·99	2·00	1·86	1·71	1·90	1·84	1·64	1·56	2·01	1·66	1·86	1·81	1·71	1·61	1·64	1·49	1·54	1·52	1·45	
541	661	548	570	557	585	516	498	192	489	194	504	494	498	510	497	557	648	709	722	715	
·46	1·46	1·38	1·43	1·29	1·16	1·84	1·33	1·19	1·12	1·41	1·18	1·88	1·28	1·22	1·17	1·32	1·37	1·54	1·58	1·55	
·15	28·02	28·70	28·05	28·88	29·58	28·36	27·84	27·79	27·77	28·86	28·32	28·02	28·29	27·88	27·49	21·76	21·82	20·06	19·36	18·90	

s years.

List of mining properties leased, assigned or abandoned in the State of Mysore from January to December 1937.

A.—Leased.

Table 12.

NAME OF PROPERTY	SITUATION		Name of Lessee	Date of Grant	Registered No. of Lease	REMARKS
	Taluk	District				
Hulikatte Block	Davangere and Jagalur.	Chitaldrug ...	Messrs. V. Manickavelu Mudaliar & Son	4th March 1937 ...	177	For Manganese Ore for 10 years from 27th March 1937 in lieu of Lease No. 171 expired.
Sunkadahalli	Arsikere ...	Hassan ..	Messrs. Oakley Duncan & Co. Ltd.	15th March 1937 ...	178	For Chrome Ore for 10 years from 27th March 1937 in lieu of Lease No. 172 expired.
Mahadevpur	Holalkere ...	Chitaldrug ...	Do ...	Do ...	179	For Manganese Ore for 10 years from 27th March 1937 in lieu of Lease No. 173 expired.

B.—Assigned.

NAME OF PROPERTY	SITUATION		Registered No. of Lease	Name of Assignor	Name of Assignee	Date of Assignment	REMARKS
	Taluk	District					
Nil	.....	.....	.....	Nil	.....	.....	.....

C.—Abandoned.

NAME OF PROPERTY	SITUATION		Registered No. of Lease	Name of Lessee	Date of Abandonment	REMARKS
	Taluk	District				
Nil	.....	.....	.....	Nil	.....	.....

RECORD OF FATAL AND SERIOUS ACCIDENTS.

[MINING.]

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
ith January ...	2	The Mysore Gold Mine, Bowringpet Taluk, Kolar District.	16	9	...	1 B. Chinna Venkatappah.	23
8th January ...	12	Do ...	8	1	...	1 Hajee Abdulla ...	58
8th January ...	5	Do ...	15	8	...	1 T. Kuppuswamy	30
20th January ...	6	Do ...	13-30	6½	...	1 B. Abboy ...	36
21st January ...	17	Do ...	19-30	4½	...	1 C. Manickam ..	23
3th February ...	25	Do ...	8-40	1⅔	...	1 S. Murugan ...	30
12th February ...	29	Do ...	17-30	2½	..	1 K. Singaram ...	28
26th February ...	36	Do ...	11	4	...	1 A. Chengaiyan ...	28
2nd March ...	37	Do ...	13	6	...	1 C. Ganga Reddy	30
3rd March ...	40	Do ...	18-30	3½	...	1 T. Muniswamy...	28
5th March ...	41	Do ...	10	3	1 K. Chinnaiyan...	...	38

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.

Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Concreting cooly	Drive (Intermediate), 49th level S., McTaggart's Main Winze	XIX	While handing up a granite stone, he overbalanced and fell, and the stone dropped on his legs.	Fracture of lower 3rd of right thigh and both bones of left leg.
Sawyer ...	Saw mill, Carpenters' Shop. (surface.)	XX	While feeding a piece of timber, his hand slipped and came in contact with the revolving saw.	Left thumb and left index finger crushed and amputated.
Blackrock cooly	Stope below the 43rd level N., McTaggart's Vertical Shaft.	XIX	While lifting a stone it broke and a piece fell on his knee.	Wound of left knee, joint opened.
Packwall cooly ...	Stope below the 42nd level N., Mc Taggarts' Vertical Shaft.	XIX	While breaking a piece of rock, a chip flew off and struck his knee.	Wound of left knee, joint opened.
Stuff cooly ...	Drive, 59th level N., Air Shaft.	XVII	While re-railing a bandy his hand was caught between it and a side of the level.	Middle and ring fingers crushed and amputated at the metacarpophalangeal joint.
Handjumper cooly.	Stope below the 51st level N. (East Reef), Edgar's Shaft.	XIX	While clearing stuff, a piece of rock fell on his arm.	Lacerated wound of left forearm, extensor tendons to index, middle and ring finger cut.
Stuff cooly ...	Drive, 890 ft. level S., Rowse's Shaft.	XIX	While filling a bandy at a chute, a piece of rock fell on his knee.	Traumatic arthrotomy of left knee joint.
Stuff cooly ...	No. 1 winze below the 80th level N., Edgar's Sub-Vertical Shaft.	XV	While riding up in a bucket, he fell away and was caught on a divider.	Wounds of scalp, face, over left clavicle with fracture of 2nd and 3rd ribs with surgical emphysema and wounds of left leg.
Handjumper cooly.	No. 47 stope below the 2,670 ft. level N., Tennant's Shaft.	XIX	While starting a hole, a piece of rock fell on his knee.	Wound of right knee, joint opened.
Stuff maistri (M. 14, 482.)	Skiproad below the 466 ft. level, Plummer's Shaft.	XIX	While clearing a choke, a piece of timber fell on his leg.	Simple fracture, both bones of lower 3rd of left leg, contused abrasions of back and lower 3rd of left leg.
Concreting cooly	Stope above the 51st level S., Ribblesdale's Main Winze.	XIX	Collapse of packwall	Compound fracture of both bones of right leg, simple fracture of both bones of right fore-arm and crushed fingers, fracture of base of skull and internal laceration of lungs.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
5th March ...	56	The Mysore Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	23	8	...	1 K. Govindan ...	20
9th March ...	47	Do ...	13	6	...	1 P. Ponnan ...	35
20th March ...	51	Do ...	3-30	4½	...	1 M. Manickam ...	30
25th March ...	60	Do ...	23-30	4½	...	1 K. Munian ...	44
26th March ...	80	Do ...	12	5	...	1 P. Dhanapal ...	26
19th April ...	76	Do ...	14	7	...	1 M. Nagan ...	27
26th April ...	82	Do ...	9	2	...	1 O. Muniswami ...	33
26th April ...	86	Do ...	13-30	6½	...	1 B. Poongavanam	32
18th May ...	104	Do ...	12-30	5½	...	1 S. Gopal ...	25
16th June ...	118	Do ...	7-45	¾	...	1 S. David ...	37
16th June ...	125	Do ...	19-30	4½	...	1 A. Armugam ...	31
1st July ...	138	Do ...	9-30	2½	...	1 B. Venkatappa ...	40

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Sink of No. 1 winze in No. 3 drive S., 2,760 ft. level, McTaggart's Incline Shaft.	XVIII	Struck by a bucket which was lowered uncontrolled.	Contused swelling of lower part of back. (Lumbo sacral region.)
Handjumper maistri (M. 10,670.)	No. 22 stope above the 1,620 ft. level N., Gilbert's Shaft.	XV	While drilling a hole, a jumper dropped on his knee.	Wound of left knee, joint opened.
Machine cooly ...	Drive, 83rd level N., Edgar's Sub-Vertical Shaft.	XIX	While watering a hole, some slush fell in his eye.	Traumatic conjunctivitis of right eye with a central corneal ulcer.
Machine maistri (M. 10,063.)	Sink of No. 1 winze below the 2,760 ft. level, No. 3 drive S., McTaggart's Incline Shaft.	XVIII	Struck by a loaded bucket which ran down uncontrolled to the sink.	Contusion of lower part of back, wound of scalp, contused abrasion dorsum of right foot.
Machine cooly ...	Plat, 88th level, Edgar's Sub-Vertical Shaft.	XIX	While drilling a hole, a piece of rock fell on his hand.	Tetanus (probably due to a neglected wound on his hand.)
Handjumper maistri (M. 14,946.)	No. 86 stope below the 31st level S., Ribblesdale's Shaft.	XIX	While examining the working face for loose, a chip of rock flew into his eye.	One day old penetrating wound with traumatic cataract in right eye.
Handjumper maistri (M.B. 12,786)	No. 17 stope above the 1,350 ft. level S., Gilbert's Shaft.	XIX	While barring down loose, a chip of rock flew into his eye.	Wound of left cornea.
Unloading cooly	Plat, 51st level, Edgar's Shaft.	XVII	While pushing a bandy, he slipped and fell.	Two days old colles' fracture left.
Timber cooly ...	Intermediate drive above the 44th level N., McTaggart's Vertical Shaft.	XIX	While fixing a timber, a piece of rock fell on his leg.	One day old wound of left tendo-achilles, tendon partly cut.
Timber cooly ...	Plat, 400 ft. level, Crocker's Shaft.	XVI	While unloading tools from the bandy, it was suddenly hoisted, with the result that he was caught under it.	Extensive lacerated wound of scalp, wounds of both knees, and contused swelling lumbothoracic region of back.
Machine cooly ...	Winze in fold below 1,180 ft. level N., McTaggart's Incline Shaft.	XIX	While clearing stuff, a piece of rock fell on his hand.	Lacerated wound dorsum of right hand with extensor tendon cut.
Handjumper maistri (M. 13,044).	No. 17 Stope above the 1,350 ft. level S., Gilbert's Shaft.	XIX	While barring down loose, a piece of rock fell on his foot.	Lacerated wound dorsum of right foot, extensor tendon slightly injured.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
7th July ...	132	The Mysore Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	11-30	4½	...	1 A. Ponnurangam.	22
7th July ...	133	Do ...	18-30	3½	...	1 Y. Lakshmiah ...	20
8th July ...	135	Do ...	7-45	¾	...	1 V. Moses ...	25
14th July ...	140	Do ...	14-45	7¾	1 K. Muthuswami.	...	42
						1 K. Ramaswami ...	26
21st July ...	150	Do ...	10-30	3½	...	1 B. Jayanathan ...	23
1st August ...	153	Do ...	14-30	7½	...	1 K. Samuel ...	26
3rd August ...	155	Do ...	11	4	1 Manickam ...	...	40

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Concreting cooly.	Cage-road, 20 ft. below the 51st level, Ribblesdale's No. 2 Auxiliary Shaft.	XIX	While building a packwall, a granite stone fell on his leg.	Lacerated wound, lower 3rd of left leg, extensor muscles, tendons and blood vessels cut.
Machine cooly ...	No. 2 crosscut west, 88th level, Edgar's Sub-Vertical Shaft.	XIX	While drilling a hole, a piece of rock fell on his leg.	Wound lower 3rd of left leg, tendo achilles partly cut.
Loco-driver ...	Plat, 32nd level, Edgar's Shaft.	XVII	His foot was caught between the wheels of a locomotive and a sand bin.	Extensive lacerated wound dorsum of right foot and ankle with gross loss of tissue and compound fracture of tarsals and metatarsals
Handjumper cooly.	Stope below the 2,790 ft. level S., Tennant's Shaft.	XIII	Due to deepening a socket containing a remnant of the previous charge of explosives.	Peppered and lacerated wounds all over the body, multiple compound comminuted fractures of left foot with extensive tissue loss, compound comminuted fracture of right little finger, wounds and foreign bodies in both eyes and compound fracture of left ulna (leg and finger amputated) Died in hospital on 15th July.
Do ...	Do ...	Do	Do ...	Peppered wounds all over the body, foreign bodies in both eyes, with penetrating wound and hæmorrhage into the anterior chamber.
Blackrock cooly.	No. 39 Stope below 3,226 ft. level (Intermediate) S., McTaggart's Incline Shaft.	XIX	While building a packwall, a piece of rock fell on his knee.	Wound of right knee, joint opened, quadriceps tendon cut.
Blackrock cooly.	No. 29 Stope below the 49th level, Ribblesdale's Auxiliary Main Winze.	XIX	While breaking a piece of rock, a chip flew into his eye.	Penetrating wound of left eye with prolapse of iris.
Cyanide cooly ...	Extractor Room, Cyanide Department (Surface).	XXIII	He was struck by the handle of a trolley he was pulling.	Contusion of abdominal wall. Died in hospital on 8th August.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed *(All males unless otherwise stated)*	Names and Number of Persons injured *(All males unless otherwise stated)*	Reputed Age
6th August ...	157	Mysore Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	7-50	8-5/6	...	2 C. Lakshmiah ...	35
						M. Mammy ...	40
10th August ...	159	Do ...	10	3	...	1 Iyloo Naidu ...	50
24th August ...	171	Do ...	12-45	5¾	...	1 R. Periaswami ...	31
31st August ...	172	Do ...	12	5	...	1 Subban *alias* Subbadu.	29
24th September ...	179	Do ...	2	3	...	1 V. Muniswami ...	42
28th September...	180	Do ...	13	6	...	1 A. Kalavarayan.	32
6th October ...	188	Do ...	12-30	5½	...	1 M. Papoo Reddy.	51
13th October ...	189	Do ...	19	4	1 E. Govindan ...	...	35
28th October ...	200	Do ...	10-30	3½	...	2 A. Ponnuswami.	40

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Timber maistri (M. 13,483 B. 8,829).	Drive, 33rd level S., South Reclamation Winze.	XI	A rockburst ...	Wounds of scalp with fracture of base of skull, and potts' fracture left.
Machine cooly ...	Do ...	Do	Do ...	Wound of scalp, right forearm, dorsum of hand, right knee, leg and contusion of back.
Mill cooly ...	Stamp Mill, Surface	XXIII	While raising a guide timber, his arm was caught between it and a king post.	Lacerated wounds of lower 3rd of left forearm with comminuted fracture of radius.
Handjumper cooly	Stope below the 43rd level, N., Ribblesdale's Auxiliary Main Winze.	XI	A rockburst ...	Fractures of 1st and 2nd right transverse process, compression fracture of right half of 2nd lumbar body, wounds of left fore-arm, index and middle fingers and knee.
Handjumper cooly	Stope below the 28th level N., McTaggart's Incline Shaft.	XIX	Whilst cleaning down stuff, he slipped and fell on the working face.	Wound of right palm with comminuted fracture of proximal phalanx of index finger and colles' fracture, left.
Machine maistri (M. 10,809—B. 7,369).	Stope above the 51st level (E. Reef) S., No. 1 Incline.	XIX	While barring down loose, a chip of rock flew into his eye.	Corneal ulcer of left eye (central) due to 4 days' old wound.
Stuff cooly ...	Drive, 2,120 ft. level N., Tennant's Shaft.	XIX	While filling a bandy at a chute, a piece of rock fell on his knee.	Wound of left knee, joint opened.
Handjumper cooly.	Stope below the 2,890 ft. level N., Tennant's Main Winze.	XIX	while cleaning down stuff, he slipped and fell.	Posterior dislocation of right hip joint.
Blaster (M. 13,307 —B.8,768).	No. 9 Stope above the 450 ft. level N., McTaggart's Incline Shaft.	XIV	While igniting a round of holes, he was caught in the blast.	Fracture of head and severe wounds all over the body. Died on the way to hospital.
Handjumper maistri (M. 10,354.)	No. 140 Stope above the 47th level N., Ribblesdale's No. 2. Auxiliary Shaft.	XIII	Due to the deepening of a socket containing a remnant of the previous charge of explosives.	Penetrating wound of left eye with prolapse of iris and hæmorrhage into the anterior chamber, wounds of right eye, scorched and lacerated wounds of right forearm and left hand.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
		Mysore Gold Mine, Bowringpet Taluk, Kolar District—*concld.*				Thimmarayadu...	35
15th November ...	206	Do ...	13	4	2 V. Ebenezàr ...	...	18
					K. Manickam ...	...	30
24th November ...	208	Do ...	6-30	7½	...	1 A. Chowdappa ...	28
3rd December ...	212	Do ...	10	3	...	1 V. Narayanan ...	36
26th December ...	219	Do ...	21-45	6¾	1 R. Krishtan ...	...	25
2nd January ...	1	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District.	18-45	3¾	...	1 Kolandayappan...	25
11th January ...	7	Do. ...	14	7	...	1 Duraiswami ...	35
12th January ...	8	Do ...	10-45	3¾	...	1 Yellan ...	29
16th January ...	11	Do ...	3-30	4½	...	1 Rangappah ...	35
19th January ...	13	Do ...	11	4	...	1 Joseph ...	22

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Handjumper cooly.	No. 140 Stope above the 47th level N., Ribblesdale's No. 2 Auxiliary Shaft.	XIII	Due to the deepening of a socket containing a remnant of the previous charge of explosives.	Penetrating wound of left eye with hæmorrhage into the anterior chamber, wounds and foreign bodies in right eye.
Timber cooly ...	Dump above the 48th level, Ribblesdale's Auxiliary Main Winze.	XI	A rockburst ...	Fracture of base of skull with deep wound above left ear and wounds all over the body.
Timber maistri (M. 12,780).	Do	Do	Do ...	Wounds of scalp, fracture of sacrum and pelvis. Died in hospital the same day.
Jackhammer cooly.	Stope above the 1,060 ft. level N., Rowse's Shaft.	XIX	While drilling a hole, some pieces of rock fell on him.	Wounds of left outer ankle, lower 3rd of right leg, tendo-achilles partly cut.
Head maistri (M. 11,572).	Stope below 2,440 ft. level N., Tennant's Shaft.	XIX	While breaking a piece of rock, a chip flew into his eye.	Penetrating wound of left eye with slight prolapse of iris.
Stuff cooly ...	No. 1 winze below 84th level S., Edgar's Sub-Vertical Shaft.	XV	He fell down the winze for a distance of about 200 ft.	Fracture of skull and left upper arm and multiple wounds all over the body.
Concreting cooly	Stope above the 73rd level, S., North Main Winze.	XI	A burst of quartz ...	Deep laceration of both sides of right ankle, tendo-achilles lacerated and ankle joint opened.
Stuff cooly ...	Drive, 23rd level, S., Tennant's Shaft.	XVII	While tramming a quartz bandy, he slipped and fell against the foot-wall.	Wound of scalp, right shoulder, right knee, dorsum of foot, contused abrasions of back and rupture of right tympanum.
Stuff cooly ...	Stope above the 75th level, South Development Winze.	XIX	While cleaning down stuff, a piece of rock fell on his foot.	Wound of left inner ankle with synovitis of left ankle joint.
Stuff cooly ...	Drive, 78th level N., North Main Winze.	XIX	While filling a bandy at a chute, a piece of rock fell on his arm.	Wound lower 3rd of left fore-arm, muscles cut.
Timber cooly ...	Foot wall drive, 80th level S., South Development Winze.	XIX	Being scared by a rockburst he ran for safety when he slipped and fell.	Wound dorsum of right foot and contusion of left wrist.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
21st January ...	9	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	19	4	...	2 Rajoo ...	22
						and	
						Nallathambi ...	22
27th January ..	18	Do ...	12-40	5½	...	1 W. Rajoo ...	28
27th January ...	14	Do ...	21-30	6½	...	1 Muniswami ...	35
1st February ...	28	Do ...	19-30	4½	...	1 Latchmanan ...	42
3rd February ...	23	Do ...	17	2	1 B. Krishtan ...	...	27
4th February ...	24	Do ...	15	8	1 T. Perumall ...	...	23
8th February ...	26	Do ...	12-30	5½	...	2 Chinnaswami	22
						and	
						Chinnappan ...	28
16th February ...	32	Do ...	20	5	1 Iyavoo ...	...	40

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Timber cooly ...	Rill stope above the 74th level N., No Main Winze.	XI	A burst of quartz ...	Extensive lacerated wound of right axilla, muscles cut.
Do ...	Do ...	Do	Do ...	Contused abrasions of back and contused swelling dorsum of left foot and abrasion of right leg.
Machine cooly ...	Stope above the 78th level S., North Main Winze.	XIX	While drilling a hole, a piece of rock fell on his foot.	Wound dorsum of right foot.
Machine cooly ...	Sink, 100 feet below 51st level, Gifford's Shaft.	XIX	While mixing concrete, a piece of rock fell on his foot.	Extensive penetrating wound right through right foot, compound fracture 3rd, 4th and 5th metatarsals and destruction of soft tissues.
Machine cooly ...	Rise for headgear above the 76th level N., North Main Winze.	XIX	While drilling a hole, a piece of rock fell on his leg.	Extensive lacerated wounds lower 3rd of right leg with muscles injured.
Concreting cooly	Capstan road above the 28th level, Tennant's Shaft.	VIII	While working in the shaft, he fell down a distance of 120 feet.	Wounds of scalp with fracture of skull and base of skull, fractures of left clavicle, humerus, 4 or 5 ribs and fracture of right fore-arm and left thigh. Died in hospital the same day.
Machine cooly ..	Ladderway in No. 1 winze below the 80th level S., South Development Winze.	XV	While climbing up by ladder, he somehow slipped and fell away.	Multiple wounds all over the body.
Packwall cooly ...	Stope above the 75th level N., South Development Winze.	XI	A burst of quartz ...	Wound of left knee, joint opened.
Do ...	Do ...	Do	Do ...	Compound comminuted fracture into left knee joint with extensive lacerated wound of leg.
Machine maistri (M. 13, 862, B. 8, 995).	No. 1. winze below the 80th level S., South Development Winze	XV	While riding up in the bucket in a winze, he somehow overbalanced and fell to the bottom.	Head smashed and right leg broken below the knee and wounds all over the body.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed *(All males unless otherwise stated)*	Names and Number of Persons injured *(All males unless otherwise stated)*	Reputed Age
18th February ...	33	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	1-0	2	...	1 Chowdappa ...	25
19th February ...	43	Do ...	2-30	3½	...	1 Arokiaswami ...	23
6th March ...	50	Do ...	5	6	...	1 M. Muniswami ...	45
6th March ...	44	Do ...	10-50	3 5/6	...	2 Perumal ...	30
						and	
						Ramachandra Reddy.	35
7th March ...	53	Do ...	4	5	...	1 R. Muniswamy	24
14th March ...	54	Do ...	11-30	4½	...	1 Jaganatham ...	25
15th March ...	55	Do ...	21-30	6½	...	1 Yegambaram ...	26

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Rise for rope race above the 55th level, Gifford's Shaft.	XIX	While climbing up by ladder, a piece of rock fell on his leg.	Left tendo-achilles completely cut.
Stuff cooly ...	Drive, 78th level S., South Development Winze.	XI	A burst of rock ...	Wounds and contused abrasions of back, wound upper 3rd of right arm, lower 3rd of right thigh, middle of right leg, dorsum of foot, left knee, lacerated wound lower 3rd of left forearm, wrist, contused wounds and abrasions of right knee.
Concreting maistri (M. 10, 313).	No. 3, winze below 80th level S., South Development Winze.	XIX	While aligning a concrete former, some dust fell into his eye.	Traumatic conjunctivitis of left eye.
Machine cooly ...	Cross cut W. 80th level, Heathcote Shaft.	XI	A rockburst ...	Simple fracture of upper 3rd of left forearm, wounds of face, both forearms and legs.
Do ...	Do ...	Do	Do	Lacerated wounds of scalp, right shoulder, forearm left elbow, right leg, dorsum of foot with extensor tendons cut.
Machine cooly ...	Sink, 230 feet below the 61st level, Gifford's Shaft.	X	While at work in the sink, a plank fell on his hand.	Lacerated wound of palm and dorsum of right hand with compound fracture of last metacarpal.
Timber cooly ...	Stope above the 78th level N., North Main Winze.	XI	A rockburst ...	Wounds of scalp, left eye-brow, right elbow, forearm, knee, dorsum of foot, wounds of lower 3rd of left leg with tendo-achilles slightly injured, contused abrasions lower part of back and contusion of left inner ankle. Fracture of left internal malleolus, compression fracture of 1st lumbar vertebra.
Stuff cooly ...	Drive, 78th level S., North Main Winze.	XVII	Run over by a bandy ...	Wound of right great and 2nd toes, great toe nail off and impacted fracture of neck of right femur.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
7th April ...	68	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	18-30	3½	1 Perumal ...	...	35
						1 Iyavoo ...	30
9th April ..	70	Do	3-30	4½	...	1 Anthony Cruz ...	25
10th April ...	79	Do ...	20	5	...	1 V. Rangaswamy	25
17th April ...	89	Do ...	2-30	3½	...	1 Muniswami ...	40
18th April ...	75	Do ...	11	4	1 Dharman ...	...	30
24th April ...	90	Do ...	6	7	...	1 Krishnan ...	30
27th April ...	84	Do ...	13-40	6⅔	...	1 Vadivelu ...	25
29th April ...	91	Do ...	11	4	...	1 Chinnakannoo ...	33
2nd May ...	92	Do ...	20	5	...	1 Dhanapal ...	21
6th May ...	93	Do ...	6	7	...	1 Annamalai ...	35

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Concreting maistri (M. 13,182)	Stope above the 76th level S., North Main Winze.	XI	A rockburst ..	Multiple wounds all over the body and fracture of spine at the middle and deep wound of left chin.
Concreting cooly.	Do ...	Do	Do ..	Multiple wounds of both lower extremities and wounds lower third of back and left eye-brow.
Winch driver (D 396).	Drive, 80th level S., South Development Winze.	XIX	While walking along the level, he tripped against a sleeper and fell.	Lacerated wound of left knee, joint opened.
Machine cooly ...	Rise above the 28th level S., Tennant's Shaft.	XIX	While drilling a hole, the jumper broke and fell on his finger.	Lacerated wound of left last finger with compound fracture of middle phalanx.
Door boy ...	Drive, 72nd level N., North Main Winze.	XVII	Run over by a bandy ...	Lacerated wound sole of right foot and contused abrasions dorsum of foot with fractures of 4th and 5th metatarsals.
Machine cooly ...	Drive, 74th level N., North Main Winze.	XI	A rockburst ...	Wounds of scalp with fracture of skull and multiple wounds all over the body. Died in hospital the same day.
Machine maistri (M. 14545/B.—9260).	Sink 50 feet below the 55th level, Gifford's Shaft.	XIX	While drilling a hole, the jumper broke and the machine fell on his toes.	Lacerated wounds of left great and 2nd toes.
Stuff cooly ...	Drive, 78th level S., South Development Winze.	XIX	While pushing a bandy along the level, his foot slipped between two planks causing his knee to strike against the rail.	Lacerated wound of right knee, joint opened.
Stuff cooly ...	Plat, 65th level, Gifford's Shaft.	XIX	The bucket he was about to tip descended on him.	Potts' fracture right.
Timber cooly ...	Rill Stope above the 74th level S., South Development Winze.	XI	A rockburst ...	Simple fracture of upper 3rd of right arm, wounds of elbow, compound fracture of upper 3rd of forearm, wounds of scalp, and left forearm.
Machine cooly ...	Sink of No. 2 Winze 170 feet below the 80th level N., South Development Winze.	XIX	While clearing stuff, a piece of rock fell on his hand.	Wound of left wrist with tendon to middle finger cut.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
7th May ...	94	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	6	7	...	1 Manickam ...	35
7th May ...	97	Do ...	10	3	2 Maurimuthoo and	...	35
					Manickam	...	20
						5 Muthuswami ...	30
						Latchmanan ...	35
						Gopal ...	25
						Sanjeevi ... and	25
						Manickam ...	30
9th May ...	95	Do ...	14-30	4½	...	1 R. Chengalaroyan	51
13th May ..	100	Do ...	6-30	7	1 Arokiaswami ...	...	29
15th May ...	101	Do ...	10	3	...	1 Thandavarayan...	23

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Sink 70 feet below the 51st level, Gifford's Shaft.	XIX	While clearing stuff a piece of rock fell on his hand.	Wound of right wrist with extensor tendon cut.
Stuff cooly ...	Rill stope above the 74th level S., South Development Winze.	XI	A series of very heavy rockbursts ...	Body crushed and decomposed. Brought up to surface on 9th May at 7 p.m.
Do ...	Do ...	Do	Do ...	Body highly decomposed and disfigured. Brought up to surface on 12th May at 2-55 p.m.
Packwall cooly ...	Drive 73rd level S., South Development Winze.	Do	Do ...	Wound of left knee joint opened
Do ...	Do ...	Do	Do ...	Contused swelling of ankle with simple fracture of lower end of fibula and wounds, both hands and legs.
Timber cooly ...	Do ...	Do	Do ...	Extensive lacerated wound lower 3rd of left leg and dorsum of right foot.
Packwall cooly ...	Do ...	Do	Do ...	Lacerated wound lower 3rd of right forearm muscles injured and wound dorsum of right hand.
Pipe cooly ...	Do ...	Do	Do ...	Lacerated wounds over left clavicle, heel, contused abrasions of back and wounds of both legs.
Linesman ...	Compound of the Chief Medical Officer's Bunglow, Champion Reef Mine (surface.)	XXIII	While cutting a guy wire, he came in contact with a live wire and fell about 20 feet.	Electric shock with burns of both palms and abrasion dorsum of left foot and fracture of right acetabulum.
Machine maistri (M 14, 015)	Excavation for fan chamber, 40th level, Glen's Secondary Shaft.	XIV	He was caught in the blast before he could retreat to a place of safety after lighting the fuses.	Face disfigured and multiple wounds all over the body.
Machine cooly ...	Rill Stope above the 75th level, S., South Development Winze.	XIX	While clearing stuff, a piece of rock fell on his knee.	Lacerated wound of right knee, joint opened.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
31st May ...	113	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	2	3	...	1 Abdul Azeez ...	23
31st May ...	105	Do ...	22	7	...	1 Chadayan ...	45
1st June ...	106	Do ...	5	6	...	1 Dhanapal ...	28
3rd June ...	114	Do ...	18	10	...	1 Abdul Rashid ...	40
8th June ...	111	Do ...	11-30	4½	...	1 Ponnuswami ...	24
12th June ...	116	Do ...	18-30	3½	...	1 Muniswami ...	22
28th June ...	129	Do ...	12	5	...	1 Kannan ...	26
2nd July ...	145	Do ...	10	3	...	1 Balakrishnan ...	25
4th July ...	139	Do ...	14-30	7½	...	1 Dharman ...	21
9th July ...	136	Do ...	13-25	6 5/12	1 Arumugam ...	...	23
15th July ...	149	Do ...	19-30	4½	..	1 Devaraj ..	18
16th July ...	146	Do ...	6	7	...	1 Lakshmanan ..	35

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Tea boy ...	Plat, 51st level, Gifford's Shaft.	XVII	While pulling a bandy from the front, one of the wheels passed over his toe.	Right great toe crushed.
Machine cooly ...	Sink 115 feet below the 55th level, Gifford's Shaft.	XIX	While drilling a hole, a piece of rock fell on his hand.	Lacerated wound of right wrist, extensor tendons cut.
Machine cooly ...	Sink 200 feet below the 51st level, Gifford's Shaft.	XIX	While drilling a hole, a piece of rock fell on his knee.	Lacerated wound of right knee, joint opened.
Tramming maistri	Tramline, bottom of new ore bin, Gifford's Shaft (surface).	XXII	Caught between a bandy and a side of the ore bin.	Contusion of back and contused abrasion of right chest wall.
Machine cooly ...	Stope above the 79th level N., South Development Winze.	XIX	While drilling a hole, a piece of rock fell on his knee.	Wound of right knee, joint opened.
Stuff cooly ...	Drive 75th level N., South Development Winze.	XIX	While clearing stuff, he tripped against a stone and fell.	Wound of right knee, joint opened, wound of left knee (quadriceps, tendon injured) and wounds of both legs.
Stuff maistri (M 15, 031)	Drive, 79th level S., South Development Winze.	XIX	While clearing stuff, a piece of rock fell on his foot.	Lacerated wound dorsum of left foot with compound fracture of 4th metatarsal and extensor tendon cut.
Machine cooly ...	Sink, 200 feet below the 51st level, Gifford's Shaft.	XIX	While filling the bowk, his finger was caught between the edge and a piece of rock.	Lacerated wound of right index finger with compound fracture of proximal phalanx.
Machine cooly ...	Stope above the 74th level S., South Development Winze.	XV	While climbing down by ladder, he slipped and fell.	Compression fracture involving anterior half of 12th dorsal vertebra.
Stuff cooly ...	No. 1 A winze, 76th level S., North Main Winze.	XV	While filling a bandy near a winze he somehow slipped and fell into it.	Multiple wounds all over the body. Died on the way to hospital.
Stuff cooly ...	Drive, 51st level S. Gifford's Shaft.	XVII	Owing to the derailment of a bandy he was pushing, his wrist was injured.	Colles' fracture right.
Machine cooly ...	Drive, 82nd level S., South Development Winze.	XIX	While unrigging the bar, a piece of rock fell on his knee.	Wound of left knee, joint opened.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
17th July ...	147	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	14	7	...	1 Iyakannoo ...	20
25th July ...	151	Do	22	7	1 Manickam ...	...	25
31st July ...	154	Do ...	11-30	4½	...	1 Chinnapiah ...	22
19th August ...	163	Do ...	18	3	...	1 Kuppan ...	26
29th August ...	185	Do ...	19-30	4½	...	1 Ponnuswami ...	32
1st September ...	170	Do ...	15-15	6	2 Dasana Boyee	...	55
					and Venkatigadoo.	...	22
30th September...	184	Do ...	21-30	6½	1 Tholasi *alias* Sholay	...	25
7th October ...	186	Do ...	12	5	...	1 Chinnappan ...	40
13th October ...	190	Do ...	6	7	...	1 Madalay ...	20
13th October ...	191	Do ...	12	5	...	1 Sebastian ...	29
16th October ...	192	Do ...	9-30	2½	...	1 Belligadoo ...	37

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* **Table 13.**

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Sink of No. 1 winze 150 feet below the 78th level S., North Main Winze.	XIX	While clearing stuff, a piece of rock fell on his knee.	Wound of left knee joint opened.
Stuff cooly ...	Skip road near surface, Glen's Primary Shaft.	VI	While riding upon the edge of the skip, he fell down the shaft.	Fracture of base of skull, back and right leg.
Surface cooly ...	Smoke stack, Old Winder House, Gifford's Shaft (surface).	XXIII	Owing to the collapse of the scaffolding, he fell down a distance of 25 feet.	Fracture of spine at level of 12th dorsal vertebra.
Packwall cooly ...	Rill stope above the 76th level S., South Development Winze.	XI	A burst of quartz.	Wound of lower 3rd of right leg, tendo-achilles completely cut.
Stuff cooly ...	Drive, 77th level N., South Development Winze.	XXVII	While pulling a bandy from the front, a wheel passed over his foot.	Extensive lacerated wounds, dorsum and sole of left foot.
Surface cooly ...	Site for the New Winder House, Gifford's Shaft (surface).	XIII	Collapse of a portion of a side of the excavation for the foundation of the New Winder House.	Suffocation.
Do ...	Do	Do	Do	Do
Packwall cooly...	Rill stope above the 75th level S., South Development Winze.	XI	A rockburst.	Lacerated wounds below right knee, dorsum of right foot, left elbow, left knee and compound fracture of right tibia. Died in hospital at 3-45 P.M. on 3rd October
Machine maistri (M. 14,163).	Rill stope above the 75th level S., South Development Winze.	XIX	While drilling a hole, a piece of rock fell on his knee.	Wound of right knee, joint opened.
Rail cooly ...	Drive, 78th level S., South Development Winze.	XI	A burst of rock.	Lacerated wounds of left shoulder, elbow, middle of forearm, muscles injured with compound fracture of external condyle of humerus and elbow joint opened.
Packwall cooly ...	Stope above the 74th level S., South Development Winze.	XI	A rockburst.	Lacerated wound in front of left ankle joint, tendons and muscles cut, ankle joint opened and fracture of astragalus
Timber cooly ...	Rill stope above the 74th level S., North Main Winze.	XIX	While shifting granite stones, a piece of rock fell on his leg.	Lacerated wound of lower 3rd of right leg, tendo-achilles partly cut.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
16th October ...	193	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	10-30	3½	...	1 Muthan ...	30
16th October ...	194	Do ...	11-15	4½	...	1 Chowrinayagam	24
22nd October ...	199	Do ...	9-40	2¾	1 Muniswami ...	...	30
						1 Murugan ...	35
24th October ...	198	Do ...	5	6	...	1 S. Padavattan ...	50
28th October ...	202	Do ...	12-45	5¾	...	1 Doraiswamy ...	24
2nd November ...	203	Do ...	19	4	...	1 Muniswamy ...	30
4th November ...	204	Do ...	22-30	7½	...	1 Appajee ...	26
13th November ...	209	Do ...	22	7	...	1 Mannagatti ...	20
30th November ...	217	Do ...	1	2	1 Muniswami ...	...	50
30th November ...	210	Do ...	5	6	...	1 Munisamy ...	27
4th December ...	213	Do ..	13	6	...	1 Muniswami ...	35

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
per cooly. Handjum	Stope below the 4th level S., old Carmichæl's Shaft.	XIII	Due to the deepening of a socket containing a remnant of the previous charge of explosives.	Peppered wounds of face, chestwall, lacerated wounds of left thigh and leg, wounds and foreign bodies in both eyes with haemorrhage into the anterior chamber of right eye (no vision); left hand crushed.
Stuff cooly ...	Rill stope above the 77th level S., South Development Winze.	XI	A burst of quartz.	Lacerated wound lower 3rd of left leg, tibialis anterior cut.
Timber maistri (M. 13, 094).	Rill stope on the west lode, above 74th level S., North Main Winze.	XI	A very heavy rockburst.	Wounds of scalp, fracture of spine, lacerated wound, dorsum of left foot with compound fracture of fourth toe. Died in hospital on 6th November.
Timber cooly ...	Do	Do	Do	Lacerated wound of left wrist, joint opened, extensor tendons cut, wounds of scalp, face and right shoulder.
Machine cooly ...	Rise above the 27th level S., Tennant's Shaft.	XV	While climbing down by ladder, he slipped and fell about 15 feet.	Fracture of lower ribs with surgical emphysema
Timber cooly ...	Drive, 70th level S., North Main Winze.	XVII	He was caught between a bandy and a side of the drive.	Fracture middle one-third right radius.
Packwall cooly ...	Drive, 73rd level S., South Development Winze.	XVII	He was caught between a bandy and a side of the level.	Both ears badly lacerated and torn.
Packwall cooly ...	Plat, 74th level South Development Winze.	XIX	While lying in the plat, his foot was struck by a descending cage.	Right foot crushed and amputated.
Stuff cooly ...	Drive, 28th level S., Tennant's Shaft.	XVII	His hand was caught between two bandies.	Colles' fracture left.
Bellman ...	Plat, 74th level, North Main Winze.	XIX	Overcome by heat.	Heat exhaustion.
Stuff cooly ...	Drive, 76th level S., North Main Winze.	XVII	While pushing a bandy from the side, it derailed, and fell on his leg.	Compound fracture of middle third of both bones of left leg.
Machine cooly ...	Rill stope above the 75th level S., South Development Winze.	XI	A burst of quartz ...	Depressed fracture of skull and lacerated wounds of right upper eye lid, nose, right ring finger and contusion of right chestwall.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
15th December ...	215	The Champion Reef Gold Mine, Bowringpet Taluk, Kolar District.—*concld.*	12-45	5¾	...	1 Katherveloo ...	25
31st December ...	223	Do ...	9-30	2½	...	1 Nagadoo ...	38
1st January ...	3	The Ooregum Gold Mine, Bowringpet Taluk, Kolar District.	13-20	6⅓	...	1 P. Chinnaswamy. ..	25
25th January ...	10	Do ...	7	8	...	1 S. Muniswami ...	25
5th February ...	20	Do ...	13	6	...	1 A. Ahmad ...	35
11th February ...	39	Do ...	10-20	3⅓	...	1 P. Chinnapian ...	25
20th February ...	35	Do ...	14-10	7⅙	...	1 K. Ponnuswami.	25
21st Februar ...	34	Do ...	13-21	6⅝	1 A. Mossa ...	...	28
						1 K. Syed Ali Kutty	35
6th March ...	42	Do ...	9-15	2¼	1 Mohamed ...	...	25
31st March ...	61	Do ...	12-15	5¼	1 M. Kannan ...	...	40
						2 M. Venkataswami and	38

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Stope below the 82nd level, South Section.	XIX	While drilling a hole, a piece of rock fell on his knee.	Wound of left knee, joint opened.
Pipe cooly ...	Drive, 63rd level N., Heathcote Shaft.	XIX	While carrying a pipe he slipped and fell.	Contusion of left arm, wounds of right forearm and hand and colles' fracture neck of humerus.
Timber cooly ...	Drive, 72nd level N., Auxiliary Shaft.	XIX	While taking out lagging poles from a chute, a piece of rock fell on his foot.	Wound dorsum of right foot, superficial flexor tendon of 2nd toe cut and that of 3rd toe injured.
Pipe Fitter ...	Drive, 82nd level S., Auxiliary Shaft.	XIX	While connecting air pipes, a piece of rock fell on his leg.	Wound of lower 3rd of right leg, tendo-achilles partly cut.
Handjumper cooly	Stope below the 72nd level S., Bullen's Incline Shaft.	XIX	While drilling, a piece of rock, fell on his knee.	Wound of right knee, joint opened.
Timber cooly ...	Stope above the 72nd level N., Auxiliary Shaft.	XI	A rockburst	Wounds of scalp, forehead, both eyebrows, left arm, right forearm, dorsum of hand, tip of index finger, lower 3rd of leg, lacerated wounds of lower 3rd of left leg and wound of knee.
Machine cooly ...	Sink, 65 feet below the 85th level, Bullen's Incline Shaft.	XI	A burst of rock	Lacerated wound of lower 3rd of right leg, tendo-achilles completely cut.
Handjumper cooly	No. 12 stope above the 34th level N., Oakley's Incline Shaft.	XI	A rockburst	Compound fracture of skull and multiple injuries to both arms and legs.
Do ...	Do ..	Do	Do	Multiple wounds of scalp, face and front of left clavicle.
Handjumper cooly	No. 2 stope S. below the 78th level S., Bullen's Incline Shaft.	XV	While clearing broken rock he fell into the chute.	Compound fracture of skull with multiple injuries to right leg, right hand and left forearm.
Handjumper cooly	Stope below the 71st level N., Auxiliary Shaft.	XIII	Due to drilling into a socket containing a remnant of the previous charge of explosives.	Lower third of both legs broken, compound fracture of left hand and multiple injuries all over the body.
Handjumper maistri (M. 10,231).	Do ...	Do	Do	Peppered wounds of right forearm, dorsum of hand, face, traumatic conjunctivitis of right eye, wounds of upper third of right leg.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
		Ooregum Gold Mine, Bowringpet Taluk, Kolar District.—*contd.*				V. Kunjayan ...	30
1st April ...	63	Do ...	14	7	...	1 Perumal ...	38
6th April ...	81	Do ...	11	4	...	1 V. Duraiswami ...	18
6th April ...	73	Do ...	22	7	...	1 Murugan ...	33
21st April ...	83	Do ...	10-35	3-7/12	...	1 A. Thangaveloo...	27
7th May ...	87	Do ...	16-20	1⅓	1 N. Kuttuni Nair	...	45
17th May ...	99	Do ...	18-45	3¾	...	1 V. Kuppuswami	24
2nd June ...	112	Do ...	19-30	4½	...	1 A. Annamalay ...	35
4th June ...	108	Do ...	14	7	...	1 K. Muniswami ...	35
28th June ...	127	Do ...	24	1	...	1 Kannan ...	25
29th June ...	130	Do ...	7-30	½	...	1 O. Doraswamy ...	40
19th July ...	143	Do ...	13	6	...	1 V. Manickam ...	45

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Handjumper cooly	Stope below the 71st level N., Auxiliary Shaft.	XIII	Due to drilling into a socket containing a remnant of previous charge of explosives.	Peppered wounds of face and foreign body in both eyes, contusion of left chest-wall and wounds of left first four toes.
Gang cooly ...	Plat, 42nd level, Bullen's Incline Shaft.	XVIII	While changing ropes, his head was caught between the new reel and its frame.	Wound of scalp with depressed fracture of skull.
Hammerman ...	Blacksmith's Shop, Surface.	XXIII	While turning a steel plate, he sprained his wrist.	Severe cellulitis both dorsal and ventral aspects of left wrist and lower forearm.
Stuff cooly ..	Cross-cut No. 1, 82nd level N., Bullen's Incline Shaft.	XIX	He tripped against a piece of rock and fell.	Potts' fracture left, lacerated wounds with compound fracture of right last two toes.
Timber cooly ...	Bucketway below the 70th level N., Auxiliary Shaft.	XV	While climbing down, he slipped and fell, a distance of about 15 ft.	Wound of scalp, left-eye-brow, both upper extremities, right hip, contused abrasions of back and right chest wall.
Machine mestri (M. 12,024 B. 8,143.)	Cross-cut E., 85th level, Bullen's Incline Shaft.	XI	A rockburst	Multiple injuries to head and body.
Stuff cooly ...	Drive, 55th level N., Oakley's No. 2 Vertical Shaft.	XVII	While lifting a derailed bandy with a lagging pole, it slipped and fell on his shoulder.	Simple fracture of outer third of left clavicle.
Do ...	Drive, 73rd level S., Bullen's Incline Shaft.	XIX	While filling a bandy at a chute, a piece of rock fell on his foot.	Contused wound dorsum of left foot.
Machine cooly ...	No. 8-A winze below the 79th level N., Auxiliary Shaft.	XIX	While clearing stuff, a piece of rock fell on his leg.	Lacerated wound lower 3rd of right leg, tendo-achilles partly cut.
Machine cooly ...	Cross-cut west, 52nd level, Taylor's Main Winze.	XIX	While drilling a hole, a piece of rock fell on his foot.	Wound dorsum of right foot.
Handjumper maistri (M. 5,092 B. 3,259.)	No. 7 stope above the 48th level N., Bullen's Incline Shaft.	XIX	While climbing up by ladder, a piece of rock fell on his foot.	Fractured head of right 2nd metatarsal.
Cage-road cooly	Sink, 160 ft. below the 85th level, Bullen's Incline Shaft.	X	Owing to the derailment of a skip, a piece of rock fell on his arm.	Compound fracture of middle of right humerus.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
30th July ...	152	Ooregum Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	14-45	7¾	...	1 Dhanapal ...	25
31st July ...	158	Do ...	0-30	1½	...	1 Armugam ...	32
18th August ...	160	Do ...	4	5	...	1 A. Kandan ...	25
27th August ...	166	Do ...	20-20	5¼	...	2 Chinnaswami ...	24
						and	
						Ellappan ...	24
30th August ...	168	Do ...	8-30	1½	...	1 Syed Ali Kutty	18
19th September...	176	Do ...	11	4	1 C. Ponnuswami	..	50
						1 Govindappan ...	40
4th October ...	182	Do ...	11	4	...	1 A. Ponnan ...	38
22nd October ...	197	Do ...	9–38	2-19-30	4 M. Gopala Nair.		35
					C. Muthan ...		35
					N. Padavattan ...		30
					S. Rajoo ...		25

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Cage-road below the 42nd level plat, Oakley's Incline Shaft.	VI	While riding up in the cage his head came in contact with a shaft timber.	Wounds of scalp with concussion of brain.
Do ...	No. 8 stope below the 84th level S., Auxiliary Shaft.	XI	A rockburst	Wounds nape of neck, right knee and contusion of nose.
Unloading cooly	Cage-road above the 70th level, Auxiliary Shaft.	VI	While riding up in a cage with pipes, one of them fell on his arm.	Compound fracture middle of left arm.
Machine cooly ...	No. 6-A stope winze below the 85th level S., Auxiliary Shaft.	XI	A rockburst	Compound fracture of both bones of right leg.
Do ...	Do ...	Do	Do	Compound fracture both bones of lower 3rd of right leg, deep wounds middle of back and muscles cut and lacerated wound of right hand, forearm and scalp.
Handjumper cooly	Stope below the 76th level S., Auxiliary Shaft.	XV	While climbing up by ladder, he slipped and fell down 10 ft.	Wounds of scalp, left leg and simple fracture of middle of left thigh.
Do ...	Stope below the 76th level S., (west-reef) Auxiliary Shaft.	XIII	Through drilling into a socket containing a remnant of the previous charge of explosives.	Penetrating wounds of back with injuries to left hand, right ankle, and right shoulder.
Do ...	Do ...	Do	Do ...	Left eye burst, wound and foreign bodies in right eye and peppered wounds of face, left forearm, leg and extensive lacerated wound of right hand.
Cage road cooly ...	Quartz chute above the 71st level plat, Bullen's Incline Shaft.	VIII	While repairing a chute, a few planks gave way and he fell about 16 ft.	Facture of Spine.
Machine cooly ...	Drive 64th level S., Auxiliary Shaft.	XI	A series of very heavy rockbursts ...	Multiple injuries all over the body.
Stuff cooly ...	Do	Do	Do	Do
Timber cooly ...	Drive 66th level N., Auxiliary Shaft.	Do	Do	Do
Do ...	Do	Do	Do	Do

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
)ate of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
		Ooregum Gold Mine, Bowringpet Taluk, Kolar District—*concld.*				4 M. Bangaroo ...	28
						T. Rajoo ...	35
						A. Vardah ...	30
						A. Perumal ...	28
th November...	205	Do	13-50	6 5/6	...	1 V. Perumal ...	35
th November ...	207	Do	14	7	...	1 A. Kannan ...	30
th December ...	221	Do	12	5	...	1 Munsiammal (Female).	45
th December ...	220	Do	12	5	1 K. Kolanday ...	...	45
						2 Alavee ...	34
						and	
						Srinivasan ...	24

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Stuff cooly ...	Drive, 58th level S., Oakley's No.2 Vertical Shaft.	XI	A series of very heavy rockbursts ...	Lacerated wound of right knee, joint opened, quadriceps femoris cut and lacerated wound of right index and last finger, extensor tendons cut.
Do ...	Drive, 64th level S., Auxiliary Shaft.	Do	Do	Compound fracture of both bones and wound end of left leg, lacerated wound of middle of right thigh and hip.
Timber cooly ...	Drive, 57th level N., Bullen's Incline Shaft.	Do	Do	Lacerated wound lower 3rd of left leg, tendo achilles partly cut and contused swelling of lower part of back.
Do ...	Drive, 66th level N., Auxiliary Shaft.	Do	Do	Contusion lower part of back and wound eyebrow and left leg, with fracture fourth lumbar vertebra.
Sawyer cooly ...	Timber yard near Carpenter's Shop. (surface).	XXIII	While rolling a log in the timber yard, another fell on his leg.	Compound fracture of both bones of upper 3rd of left leg.
Timber maistri (M. 14,406).	Rise for head gear, No. 3 winze, 85th level N., Auxiliary Shaft.	XV	While climbing down by ladder he slipped and fell a distance of 21 feet.	Fracture of right rib with surgical emphysema.
Coal cooly ...	Coal yard near the General Stores (surface).	XXIII	While unloading coal from a wagon, a chip flew into her eye.	Corneal ulcer of right eye (central) with diminished vision.
Handjumper cooly.	Stope below the 70th level S., Bullen's Incline Shaft.	XIII	Through drilling into an old hole containing a portion of a previous charge of explosives.	Right hand crushed below elbow, both the forelegs crushed above ankle. Right eye burst, peppered wounds of face and multiple wounds all over body.
Do ...	Do	Do	Do	Peppered wounds of both fore-arms left side of chest wall and wound of left eye with hæmorrhage into the anterior chamber.
Do ...	Do	Do	Do	Peppered wounds all over the body and wounds and foreign bodies in both eyes.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
8th January ...	4	Nundydroog Gold Mine, Bowringpet Taluk, Kolar District.	7-45	¾	...	1 C. Manickam ...	45
28th January ...	15	Do ...	9-30	2½	...	1 K. Varaden ...	35
1st February ...	30	Do ...	20-30	5½	...	1 M. Poongavanam	28
2nd February ...	19	Do ...	3-30	4½	...	1 M. Kandan ..	20
6th February ...	22	Do ...	11	4	1 W Murugan ...	...	30
						1 V. Govindan ...	25
14th February ...	31	Do ...	20-30	5½	...	1 K. Chinnappah...	29
15th February ...	45	Do ...	15-30	½	...	1 S. Muniswami ...	20
15th February ...	46	Do ...	16-30	3½	...	1 Madurai Modaliar.	50
3rd March ...	38	Do ...	13-30	6½	...	1 S. Yellappan ...	38
10th March ...	48	Do ...	13-40	6⅔	...	1 K. Chinna Ramaswamy.	30
20th March ...	52	Do ...	11	4	...	1 P. Chowdappa ...	25

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Shift Boss. (M. 9,997 B. 6,981).	Tennants' shaft (collar), Balaghat Section.	XIX	He was struck by a hammer which missed the bar he was holding, and fell on his arm.	Simple fracture middle third of right radius.
Machineman ...	Drive, 64th level S., No. 3 Auxiliary Shaft.	XIX	While clearing stuff, a piece of rock fell on his knee.	Wound of right knee, joint opened.
Concreting cooly...	Rill stope above the 55th level N., No. 1 Auxiliary Shaft. ...	XVIII	His fingers were caught between the scraper rope and the wheel.	Left middle finger crushed and amputated at the metacarpo phalangeal joint, lacerated wounds of left index, ring and little fingers and right ring finger and contusion lower 3rd of right arm.
Stuff cooly ...	Stope-below the 55th level S., No. 2 Auxiliary Shaft.	XI	A burst of quartz	Wound of right knee, joint opened.
Timber cooly ...	Plat, 51st level, No. 2 Auxiliary Shaft.	VIII	While attempting to board the cage in a hurry he fell down the shaft.	Body dismembered.
Stuff cooly ...	Do ...	Do	Do ...	Extensive lacerated wound dorsum of right foot, heel and outer ankle.
Machine cooly ...	Sink 80 feet below the 66th level, No. 3 Auxiliary Shaft.	XIX	While lifting a piece of rock it broke and a portion fell on his leg.	Wound lower 3rd of right leg, tendo-achilles completely cut.
Oil boy ...	Picking Floor (surface).	XX	While greasing the pinion wheel of a trommel in motion, his fingers were caught in the pinion.	Right last three fingers crushed and amputated.
Blacksmith ...	Fitting Shop (surface).	XXIII	While forging a piece of steel a hot scale flew into his eye.	One day old corneal abrasion of left eye with cataract in both eyes.
Machine maistri (M. 11,656—B. 7,936).	Drive, 65th level S., No. 3 Auxiliary Shaft.	XIX	While drilling a hole, a piece of rock fell on his knee.	Lacerated wound of right knee, joint opened.
Handjumper cooly.	Stope below the 52nd level N., No. 1 Auxiliary Shaft.	XI	A rockburst	Wounds of both knees, left knee joint opened, lacerated wound of left forearm, wrist and head.
Timber cooly ...	Drive, 60th Level N., No. 1 Auxiliary Shaft.	XI	A burst of rock	Contused wounds of right hip, wounds of face (right), inner side of right foot and left elbow.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
24th March ...	57	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	5	6	...	1 T. Muniswami ...	40
24th March ...	58	Do ...	18	3	...	1 K. Varadan ...	45
29th March ...	59	Do ...	9-30	2½	...	1 K. Murugan ...	32
31st March ...	64	Do ...	13-45	6¾	...	1 P. Dasappah ..	25
31st March ...	62	Do ...	21-5	6 1/12	...	1 P. Rajagopal ...	22
1st April ...	65	Do ...	12-30	5½	...	1 G. Guiseppe ...	38
5th April ...	66	Do ...	6-35	...	...	1 C. Narayanan Nair.	28
5th April ...	67	Do ...	8-40	1½	1 K. V. Moideen ...	...	48
						1 T. Kunjaimoo ...	28
6th April ...	69	Do ...	0-20	9⅓	...	1 C. H. Millington	28
9th April ...	71	Do ...	21-30	6½	...	1 B. Murugan ...	22
10th April ...	72	Do ...	23	..	...	1 C. Varadaraj ...	32
16th April ...	74	Do ...	13-45	6¾	...	1 B. Maduraimuthu	40
20th April ...	77	Do ...	18-15	3¼	...	1 S. Murugase ...	36

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine cooly ...	Drive, 64th level S., No. 2 Auxiliary Shaft.	XIX	Some pieces of loose rock fell on his leg.	Lacerated wound of left knee, joint opened with Potts' fracture.
Machine cooly ...	Drive, 64th level S., No. 2 Auxiliary Shaft.	XIX	While drilling a hole some slush flew into his eye.	Corneal ulcer of right eye.
Stuff maistri (M. 14,528).	Crosscut W., 66th level, No. 4 Auxiliary Shaft.	XI	A burst of rock	Fracture of spine (lumbar region), wounds of right index and middle fingers.
Pipe fitter cooly.	Drive, 53rd level N., No. 1 Auxiliary Shaft.	XIX	A lagging pole was dislodged on his foot.	Extensive lacerated wound sole of left foot with compound fracture of last metatarsal.
Machine cooly .	Drive, 64th level S., No. 2 Auxiliary Shaft.	XI	A burst of rock	Wound of scalp, fracture of left clavicle.
Foreman ...	Sink, 320 feet below the 66th level, No. 4 Auxiliary Shaft.	VIII	The stage on which he was standing collapsed causing him to fall a distance of 10 feet.	Potts' fracture right.
Furnace man ...	Zinc lathe room, Slimes Plant (Surface).	XX	While cleaning a lathe, his arm was caught between its base and the pulley.	Compound fracture of middle of both bones of right forearm.
Handjumper cooly.	S. 19 stope below the 54th level S., No. 3 Auxiliary Shaft.	XIII	Through drilling into a socket containing a remnant of the previous charge of explosives.	Multiple injuries to head and body.
Do ...	Do — ...	Do	Do ...	Wounds and foreign bodies all over body, both eyes burst, right knee joint opened and compound fracture of right little finger.
Assistant Foreman (M. 14, 542).	N. 14 stope above the 57th level N., No. 1 Auxiliary Shaft.	XI	A rockburst	Laceration of left forearm, contusion of right arm and back, injury to 5th lumbar vertebra.
Machine cooly ...	Drive, 63rd level N., No. 1 Auxiliary Shaft.	XIX	While cleaning a hole, a piece of rock fell on his knee.	Wound of right knee, joint opened.
Machine cooly ...	Ladderway above the 64th level, No. 1 Auxiliary Shaft.	XIX	While climbing down by ladder, he slipped and fell a distance of 10 feet.	Simple fracture of lower 3rd of right arm.
Gang cooly ...	Tennant's Shaft (surface.)	XXIII	While lifting a timber, it fell on his leg.	Potts' fracture left.
Machine cooly ...	Plat, 67th level, No. 3 Auxiliary Shaft.	XIX	While clearing stuff a piece of rock fell on his knee.	Wounds of right knee, joint opened and wound of great toe.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
25th April ...	78	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	13-15	7	1 M. Murugan ...	...	26
1st May ...	85	Do ...	21	6	...	1 P. Annamaly ...	25
5th May ...	96	Do ...	13	6	...	1 P. Kesavan ...	28
6th May ...	88	Do ...	14	7	...	1 K. Aruldoss ...	15
13th May ...	98	Do ...	20	5	...	1 K. Dorasami ...	23
22nd May ...	102	Do ...	6-45	7¾	1 S. Sanjeevi ...	...	25
27th May ...	103	Do ...	11-30	4½	...	2 K. Marappan ... and T. Vellai ...	22 36
31st May ...	107	Do ...	9-30	2½	...	1 S. Muniswami ...	30
1st June ...	109	Do ...	14	1	...	1 M. Nadesa Mudaliar.	40
2nd June ...	110	Do ...	21	6	...	1 V. Perumall ...	30
3rd June ...	121	Do ...	16-15	1¼	...	1 M. Narasan *alias* Narasimhan.	35

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Stuff cooly ...	S. 13 Winze, 64th level N., No. 3 Auxiliary Shaft.	XV	He somehow slipped and fell down a winze—a distance of about 24 feet.	Lacerated wound of scalp and simple fracture of right femur.
Machine cooly ...	N. 21 stope above the 54th level N., No. 1 Auxiliary Shaft.	XIX	While drilling a hole, some slush flew into his eye.	Corneal ulcer of right eye (central) with diminished vision.
Timber cooly ...	Winze below the 42nd level N., Kennedy's Main Winze.	XIX	While fixing a timber, some pieces of rock fell on his arm.	Lacerated wounds of left forearm, muscles cut.
Cleaner ...	Tube Mill House (surface).	XX	His arm was caught in a revolving shafting.	Greenstick fractures of both bones of lower 3rd of left forearm.
Machine cooly ...	Sink of S. 8 winze below the 63rd level, N., No. 3 Auxiliary Shaft.	XIX	While clearing stuff, a piece of rock fell on his knee.	Wound of left knee, joint opened.
Stuff cooly ...	Cage road above 64th level plat, No. 3 Auxiliary Shaft.	VI	While riding up in the cage, he fell down the shaft.	Multiple injuries to head and body.
Handjumper cooly	N. 27 stope below the 44th level N., Oriental Section.	XIII	Through intersecting a socket containing a small quantity of an unexploded charge of blasting gelatine.	Foreign bodies in both eyes with no vision in right eye. Peppered wounds of face, chest wall and both extremities.
Do ...	Do ...	Do	Do ...	Foreign bodies in right eye, peppered wounds of face, all over body, lacerated wounds lower third of right forearm, flexor muscle injured, palm of hand and right little finger crushed and amputated at the proximal joint.
Timber cooly ...	N. 22 Rill stope above the 53rd level N., No. 1 Auxiliary Shaft.	XIX	While walking down the rill, a piece of rock fell on his leg.	Wound over right tendo-achilles, tendon partly cut.
Moulder ...	Moulding shop (Surface).	XXIII	While straightening a wire, it broke off and struck his eye.	Traumatic cataract of right eye (no vision).
Machine cooly ...	N. 26 stope above the 54th level N., No. 1 Auxiliary Shaft.	XIX	While drilling with a telescopic machine, the feed pole slipped and struck his foot.	Lacerated wound dorsum of left foot, tendon slightly injured.
Stuff maistri (M. 10,789).	Chute, 55th level N., No. 2 Auxiliary Shaft.	XIX	While running stuff from a chute a piece of rock rolled down and struck him.	Contused wound right side of face. "X-Ray" examination revealed "fracture-base of skull."

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed *(All males unless otherwise stated)*	Names and Number of Persons injured *(All males unless otherwise stated)*	Reputed Age
12th June ..	123	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	6	7	...	1 Masilamony ...	24
15th June ...	117	Do	13	6	...	1 S. Kuppu Raj ...	22
16th June ...	115	Do ...	12–15	5½	...	1 K. Mohamed ...	40
19th June ...	148	Do ...	9–15	2½	...	1 M. Govindan ...	20
22nd June ...	119	Do ...	11–5	4	...	1 S. Chinnaswami	22
23rd June ..	126	Do ...	8–30	1½	...	1 C. Narayanan Nair	52
24th June ...	124	Do ...	9	2	...	1 A. Ponnan ...	24
25th June ...	122	Do ...	3–30	4½	..	1 K. Ramaswami...	40
1st July ...	128	Do ...	13–30	6½	..	1 C. Moideenkutty	35
9th July ..	134	Do ...	20	5	1 P. Veloo ...	...	24
12th July ...	137	Do ...	11	4	1 M. Armugam ...	...	30
						1. T. Raghavan ...	45
16th July ...	141	Do ...	5–40	6	...	1. V. Thiruvengadam.	37

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Hoisting cooly ...	Tramline, Picking Floor (surface).	XXII	While lifting a bandy he slipped and fell.	Wound of chin, abrasions of right forearm, leg and contusion of scrotum.
Stuff cooly ...	Drive, 57th level S., No. 3 Auxiliary Shaft.	XI	A burst of quartz	Wound of left knee, joint opened.
Handjumper cooly	Stope below the 52nd level S., No. 3 Auxiliary Shaft.	XI	A rockburst	Wound below right knee, pattellar tendon and bone cut.
Stuff cooly ...	Drive, 57th level S., No. 1 Auxiliary Shaft.	XIX	While clearing stuff, a piece of rock rolled down from the top of the pile and struck his leg.	Lacerated wounds of left leg with tendo-achilles partly injured.
Timber cooly ...	S. 24 stope below the 58th level S., No. 3 Auxiliary Shaft.	XIX	While breaking a granite stone, a chip flew into his eye.	Penetrating wound of right eye.
Handjumper cooly	S. 17 stope below the 60th level N., No. 3 Auxiliary Shaft.	XIX	While cleaning down stuff, a piece of rock fell on his leg.	Lacerated wounds lower 3rd of left leg, tendo-achilles partly cut.
Stuff cooly ...	S. 23 stope below the 60th level S., No. 3 Auxiliary Shaft.	XIX	While cleaning down stuff, a piece of rock fell on his knee.	Lacerated wound of right knee, joint opened.
Machine maistri (M. 14,446-B 9, 218).	Drive, 58th level S., No. 3 Auxiliary Shaft.	XIX	While breaking a large piece of rock, a chip flew into his eye.	Penetrating wound of right eye with prolapse of iris.
Handjumper cooly.	S. 23 stope below the 61st level S., No. 3 Auxiliary Shaft.	XI	A burst of quartz ...	Lacerated wound dorsum of right hand, left knee joint opened and contused abrasion of back, right side of face and forearm.
Stuff cooly	N. 24 winze, 55th level N., No. 1 Auxiliary Shaft.	XV	While walking along the level, without a light, he stepped into an open winze.	Multiple injuries to head and both legs.
Timber cooly ..	Cage road above the 42nd level, Tennant's Main Winze.	X	While riding up in the cage, they were struck by a timber falling down the shaft.	Deep extensive lacerated wound of left shoulder (shoulder almost severed) and wound of right cheek.
Timber Maistri (M. 9925—B. 6950).	Do ...	...	Do ...	Fracture of lumbar spine.
Concreting cooly.	N. 26 stope above the 55th level N., No. 1 Auxiliary Shaft.	XV	While climbing down by ladder, he slipped and fell 15 feet.	Compound depressed fracture of skull, wounds of face, left forearm and both legs.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
16th July ...	142	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	9-15	2¼	...	2 C. Appadorai ... and Y. Chengan ...	37 25
18th July ...	144	Do ...	17-45	2¾	...	1 A. Abboy ...	38
20thAugust ...	161	Do ...	12	5	...	1 S. Kannan ...	26
20th August ...	162	Do ...	15-30	½	1. K. Mohamed Kutty	...	52
21st August ...	164	Do ...	10-30	3½	...	1 Ranganathan ...	28
24th August ...	169	Do ...	11	4	...	1 Thangavelu ...	50
28thAugust ...	167	Do ...	2-45	3¾	...	1 K. Kathirveloo ...	36
30th August ...	173	Do ...	7-50	1-	...	1 A. Vellai ...	20
9th September	174	Do ...	2	3	...	1 N. Veloo ...	24

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Machine Maistri (M. 12,967—B. 8,613).	Sink, 450 feet below the 66th level, No. 4 Auxiliary Shaft.	XI	A rockburst ...	Simple fracture middle of left arm, wound dorsum of left index finger and leg.
Machine cooly ...	Do ...	Do	Do ...	Wound of scalp, face, left wrist, extensor tendon cut.
Machine cooly ...	Stope above the 59th level N., No. 1 Auxiliary Shaft.	XIX	While drilling, the machine fell on his hand.	Colles' fracture right.
Timber cooly ...	S. 23 stope above the 61st level S., No. 3 Auxiliary Shaft.	XI	A burst of quartz ...	Wound of left knee, joint opened and lacerated wound of left leg extensor tendon cut in front of the ankle joint.
Blaster (M. 12,251—B. 8,236).	Stope below the 47th level S., Kennedy's Main Winze.	XV	While climbing from the stope to the level, he slipped and fell down the orepass.	Compound comminuted fracture upper end of right tibia and multiple wounds all over the body. Died in hospital the same day.
Machine cooly ...	S. 21 winze below the 59th level S., No. 3 Auxiliary Shaft.	XIII	Through deepening a socket containing a remnant of the previous charge of explosives.	Foreign bodies in both eyes with penetrating wound of right eye, hæmorrhage into the interior chamber wounds of face, penetrating wound of right cheek, peppered wounds of both upper extremities and chest wall.
Machine maistri (M. 8,153—B. 5866).	Stope above the 54th level N., No. 2 Auxiliary Shaft.	XV	The stage on which he was standing gave way and he fell about 10 feet.	Wounds of scalp, left index and middle fingers, contusion of right hip and contused abrasion of right knee with traumatic synovitis.
Machine cooly ...	Crosscut E., from the 69th level plat, No. 4 Auxiliary Shaft.	XI	A burst of rock ...	Wound lower 3rd of left leg, tendo-achilles cut.
Handjumper cooly	S. 7 stope below the 60th level S., No. 2 Auxiliary Shaft.	XV	While clearing stuff, a piece of granite fell on his back.	Fracture of first lumbar vertebra.
Stuff cooly ...	S. 23 stope below the 60th level S., No. 3 Auxiliary Shaft.	XIX	While clearing stuff, a stone fell on his knee.	Wound of left knee, joint opened.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
14th September...	175	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District—*contd.*	19	4	...	1 K. Ponnuswami	48
22nd September...	177	Do ...	11-10	4	1 K. Venkatappa...	...	40
28th September...	178	Do ...	9-20	2⅔	1 K. Muniswami...	...	44
3rd October ...	181	Do ...	8-45	1¾	1 P. Kuppuswamy	...	26
18th October ...	195	Do ...	13-30	6½	1 Kunjukuttan Eluthachan.	...	43
						2 Kunju Nair ...	25
						and	
						C. Ramaswami...	26
21st October ...	196	Do ...	11-45	4¾	...	1 K. Mottaigone ...	30
28th October ...	201	Do ...	9	2	...	1 M. Kunju Nair.	30
6th November ...	211	Do ...	4	5	...	1 S. Chinnappan ...	19

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Continued.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Handjumper cooly	N. 3 stope below the 650 ft. level N., Nine Reefs.	XIX	While drilling a hole some slush flew into his eye.	Big corneal ulcer of left eye, with hypopion. No vision.
Timber cooly ...	S. 27 stope above the 51st level S., No. 3 Auxiliary Shaft.	XI	A rockburst ...	Fracture of spine and lacerated wound upper part of back, right arm, dorsum of left hand, right leg and abrasion of forehead. Died in hospital the same day.
Stuff maistri M. 13,668).	N. 24 winze below the 64th level N., No. 1 Auxiliary Shaft.	XV	He fell down the bucket road. ...	Simple fracture of left arm. Fracture of two or three ribs. Fracture middle of spine. Compound fracture of both bones of right leg. Multiple wounds all over the body with probable internal injuries. Died on arrival at the hospital.
Machine cooly ...	Plat of S. 16 winze 66th level S., No. 3 Auxiliary Shaft.	XI	A rockburst ...	Wounds of scalp with fracture base of skull.
Handjumper cooly	S. 8 stope below the 54th level S., No. 2 Auxiliary Shaft.	XI	A rockburst ...	Left foot and leg crushed and amputated below knee. Patellar tendon cut, wound of upper part of back, right elbow and face. Died in hospital the same day.
Do ...	Do ...	Do	Do ...	Simple fracture lower third of left thigh and lacerated wound of left arm.
Do ..	Do ...	Do	Do ...	Wound lower third of left leg, tendo-achilles cut.
Timber cooly ...	N. 23 stope below the 59th level N., No. 1 Auxiliary Shaft.	XV	Owing to the collapse of the stage on which he was standing, he fell down a distance of 6 feet.	Simple fracture both bones middle 3rd of left leg.
Handjumper cooly.	S. 17 stope below the 60th level S., No. 2 Auxiliary Shaft.	XIX	While drilling a hole, some slush fell into his eye.	Corneal ulcer right eye.
Bull driver ...	Tramline, Picking Floor Yard (surface).	XXII	Owing to the derailment of the bandy, his leg was caught beneath its frame.	Fracture of right fibula.

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
4th December ...	214	The Nundydroog Gold Mine, Bowringpet Taluk, Kolar District. —*contd.*	7-55	¾	2 M. Krishtan ...	...	25
					and		
					M. Chamy Kutty	...	23
						1 P. Chinna Raman.	40
20th December ...	216	Do ...	11	4	...	2 P. Raman ...	28
						and	
						Govindan Nair...	29
23rd December ...	218	Do ...	10-30	3½	1 T. Vellai ...	...	40
31st December ...	222	Do ...	16	8	...	1 K. Chengada Goundan.	54
14th January ...	21	Keshapur Mine, Holalkere Taluk, Chitaldrug District.	14-30	5	...	1 H. Thimma ...	40
19th February ...	49	Government Chrome Mines, Byrapur, Channarayapatna Taluk, Hassan District.	15	5	1 Chicki (Female)	...	35
20th August ...	165	The Indian Mines Development Syndicate, Ltd., Manighatta Block, Kolar Taluk, Kolar District.	15-30	6	1 G. Venkatappa.	...	25
24th September.	187	Do ...	15	7	...	1 S. Venkataramiah	54
1st October ...	183	Mysore Iron Mines, Kemmangundi, Tarikere Taluk, Kadur District.	10	2	1 Bora ...	...	25

AND SERIOUS ACCIDENTS

OF MYSORE DURING THE YEAR 1937.—*Concluded.* Table 13.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Handjumper cooly	Drive, 4,600 ft. level N., Oriental Section.	XI	A rockburst	Multiple wounds of face and left side of back left leg fractured above the knee with thigh muscles cut.
Do ..	Do ...	Do	Do	Wound of right hand and right leg crushed.
Do ...	Do ...	Do	Do	Lacerated wound of right knee, patellar tendon cut, wounds of left knee, leg, both hands and contusion of lower part of back.
Handjumper cooly	S. 24 stope below the 54th level S., No. 3 Auxiliary Shaft.	XIII	Through drilling into a socket containing a remnant of the previous charge of explosives.	Wounds all over the body, foreign body right eye and left eye burst.
Do ...	Do ...	Do	Do	Wounds and foreign body both eyes, peppered wound of face, chest, neck and both arms.
Stuff cooly ...	N. 21 winze below the 61st level N., No. 1 Auxiliary Shaft.	XV	While clearing the spillage after tipping a bandy into a chute, he slipped and fell into it.	Multiple injuries to head and body.
Handjumper maistri (M. 5753).	S. 16 stope below the 62nd level S., No. 3 Auxiliary Shaft.—	XIX	While taking down loose a small chip of rock flew into his eye.	One day old wound of right cornea (central) with diminished vision.
Stuff cooly ...	No. 20 Pit (surface)...	XXIII	Fall of ground	Spinal injury.
Do ...	'A' Pit, SouthBank.	XXIII	While walking up an incline, she overbalanced and fell a distance of 30 feet.	Probable fracture of base of skull.
Trench cooly ...	Trench H, 129. F. Area.	XXIII	Fall of ground	Suffocation. Body recovered on 27th August.
Road-making cooly.	Ethuroor Road, Manighatta prospecting Block.	XXIII	While pushing a wheel of a lorry, he slipped and fell.	Colles' fracture left.
Loading cooly ...	Bunker platform (surface).-	XXIII	While pushing a bandy, he slipped and fell, a distance of 15 feet.	Spinal injury. Died in hospital on 4th October.

RECORD OF FATAL AND SERIOUS ACCIDENTS.

[NON-MINING.]

RECORD OF FATAL

AT MINES WORKING IN THE STATE

1	2	3	4	5	6	7	8
Date of Accident	Registered Number of Accident	Name and Situation of Mine	Time of Accident (counting hours from midnight)	Number of hours worked before Accident	Names and Number of Persons killed (*All males unless otherwise stated*)	Names and Number of Persons injured (*All males unless otherwise stated*)	Reputed Age
7th February ...	27	Mysore Gold Mine, Bowringpet Taluk, Kolar District.	8-30	1½	...	1 K. Venkatappa...	45
30th June ...	131	Do ...	13	6	...	1 J. Kolanday ...	36
6th August ...	156	Champion Reef Gold Mine, Bowringpet Taluk, Kolar District.	...	...	1 Muthoo ...	...	70
28th January ...	16	Nundydroog Gold Mine, Bowringpet Taluk, Kolar District.	20	5	...	1 K. Chinnapian ...	25
22nd June ...	120	Do ...	13-30	6½	1 K. Thangavelu.	...	22

AND SERIOUS ACCIDENTS—(*NON-MINING*)

OF MYSORE DURING THE YEAR 1937.

Table 13A.
Supplementary.

9	10	11	12	13
Occupation	Place of Accident	Class of Accident in terms of Table 7	Cause of Accident	Nature of Injury
Unloading cooly.	Crosscut west, 51st level, Edgar's Shaft.	...	Unknown	One day old simple fracture left 6th rib.
Jackhammer cooly	Sink, 190 feet below the 84th level, South Auxiliary Vertical Shaft.	XIX	Unknown	One day old corneal ulcer of right eye.
Cinder cooly ...	Ash heap near Carmichæl's Shaft (surface).	...	While picking cinder, he was buried by the collapse of a portion of the ash heap.	Suffocation.
Timber cooly ...	Rise above the 62nd level S., No. I Auxiliary Shaft.	XIX	Not known. Alleged to have been injured underground, but it was proved to be false.	Three days old corneal ulcer of left eye with loss of vision.
Unloading cooly.	Siding, Railway Station, Oorgaum.	...	While unloading a cam pulley from a wagon, another pulley fell on him.	Fracture of pelvis. Died in hospital on 23rd June.

APPENDIX I.

NOTES ON THE ADMINISTRATION OF THE WORKMEN'S COMPENSATION ACT XIV OF 1928, ON THE KOLAR GOLD FIELD, FOR THE YEAR 1937-38.

(By Mr. G. Sundara Rao, B.A., Commissioner.)

There were 211 cases for disposal including 11 cases of the previous year. Of these, 188 were disposed of during the year leaving a balance of 8 fatal, 14 non-fatal cases and 1 memorandum of agreement case at the close of the year.

Eighty-nine cases were contested. Claims were allowed in 13 cases, applications for compensation were dismissed in 9 cases and 49 claims were compromised, leaving a balance of 18 contested cases for disposal at the end of the year.

During the year, the total amount of compensation available for distribution was Rs. 49,255-4-0 including the sum of Rs. 5,590-14-0 carried over from previous year's account. Of this, Rs. 30,872-11-0 was distributed and a sum of Rs. 2,432-8-0 was refunded to the employer as there were no claimants with a right to receive compensation. The amount pending distribution at the close of the year was Rs. 15,950-1-0 including the amounts deposited in pending cases.

The amount in deposit in Government Savings Bank at the beginning of the year for the benefit of minors was Rs. 4,000-9-9 and a further sum of Rs. 2,332-7-0 was invested during the year. A sum of Rs. 1,485-8-1 was withdrawn and paid during the year leaving a balance of Rs. 4,847-8-8 at the close of the year.

APPENDIX II.

ACCIDENTS BY FIRE OR EXPLOSION WHICH HAVE BEEN BROUGHT TO THE NOTICE OF THE MINES AND EXPLOSIVES DEPARTMENT FROM 1ST JANUARY TO 31ST DECEMBER 1937.

No.	Date of accident	Nature of explosive	Place of accident	Circumstances of accident so far as ascertained	Number of persons	
					Killed	Injured
1	10th Jan.	Fireworks	Thippasandra, Kunigal Taluk.	While a person was unscrewing the lid of a bottle containing a mixture of potassium chlorate and arsenic sulphide, it exploded in his hands.	...	1
2	29th Jan.	Blasting Gelatine.	In a well in Kaduboranahalli village, Kunigal Taluk.	Having lighted a round of holes from the top of the well and just as he was going away, the blaster slipped and fell to the bottom of the well and was caught in the blast and killed.	1	...
3	3rd Mar.	Fireworks	Haranahalli, Arsikere Taluk.	An agriculturist rested his left hand on a ball of "Bellulli Pattas" which had been placed in a field as a bait to kill wild pigs. It exploded causing him serious injuries.	...	1
4	12th Mar.	Gunpowder	Devaramane, a hamlet of Yedakanti, Koppa Taluk.	A boy sustained burns while throwing pellets of gunpowder into a fire.	...	1
5	15th Mar.	Do	Markonahalli Reservoir Works, Kunigal Taluk.	Through deepening a socket containing an unexploded charge of gunpowder a cooly sustained injuries resulting in the amputation of his right hand.	..	1
6	16th Mar.	Fireworks	Hiresadarahalli, Arsikere Taluk.	While a person was grinding together the ingredients of "Bellulli Pattas" an explosion occurred resulting in fatal injuries to him.	1	...
7	23rd Mar.	Dynamite	Seseerahalli, Bidadi Hobli, Closepet Taluk.	A stone cutter tampered with an unexploded charge of dynamite in a misfired hole, caused an explosion and sustained injuries thereby.	...	1
8	25th Mar.	Fireworks.	Kornahalli village, Tarikere Taluk.	While a person was pounding together the ingredients of a firework composition, an explosion occurred injuring him and another person closeby.	...	2
9	7th April	Gunpowder	Kemmannu Channel Extension, 8—9th mile, Irwin Canal Works.	In the course of blasting operations a misfire occurred and two coolies while removing the debris with a crowbar struck the misfire which exploded and both of them sustained injuries.	...	2
10	8th April	Dynamite.	Fourteenth mile, 25th grade, 1st Tak, Cauvery Branch Works, Hulikere, Mandya.	While clearing the broken rock after a blast with the help of iron tools, a cooly tampered with a socket containing an unexploded charge of dynamite and in the resultant explosion, himself and two others sustained injuries.	...	3
11	22nd April	Gunpowder	Kondarajanahalli, Kolar Taluk.	A stone cutter attempted to deepen an old hole containing an unexploded charge of gunpowder when it exploded injuring him.	...	1
12	25th April	Do	In a well, Ramachandrapur Extension, Bangalore City.	During blasting operations, a person was hit by a stone ejected by the blast.	...	1
13	1st May	Do	In a well in Doddenhalli, Arsikere Taluk.	While withdrawing a charge of gunpowder from a misfire by means of an iron scraper, there was an explosion and two coolies sustained injuries in consequence.	...	2
14	10th May	Fireworks.	Dyavaralinganakatte, a hamlet of Kuppacharikoppa, Madhugiri Taluk.	A cowherd tampered with a ball of "Bellulli Pattas" when it exploded and injured him.	...	1
				Carried over ...	2	17

APPENDIX II—*contd.*

No.	Date of accident	Nature of explosive	Place of accident	Circumstances of accident so far as ascertained	Number of persons	
					Killed	Injured
				Brought forward ...	2	17
15	17th May	Fireworks	Malebennur village, Harihar Taluk.	By tampering with a packet of "Bellulli Pattas" a person sustained serious injuries.	...	1
16	20th May	Do	Bilchodu village, Jagalur Taluk.	While a person was loading a mixture of potassium chlorate and arsenic sulphide into an iron tube, an explosion occurred and he sustained injuries.	...	1
17	22nd May	Gunpowder	Vodnahalli, Davangere Taluk.	While charging a hole with gunpowder by means of an iron rod, an explosion occurred resulting in injuries to two coolies.	...	2
18	24th May	Gun Cartridge.	Tumkur Town ...	A boy tampered with a gun cartridge which exploded and injured him seriously.	...	1
19	5th June	Gunpowder	Paper Mills, Bhadravati.	While two coolies were charging a hole with gunpowder by means of a steel rod, an explosion occurred resulting in serious injuries to both of them.	...	2
20	16th June	Fireworks.	Bandikoppa, a hamlet of Triambakapura, Tirthahalli Taluk.	During a marriage procession, there was a display of fireworks. The displayer was carrying a basket of firework articles in his right hand and a smouldering rope in his left. A spark from the rope fell into the basket and exploded it. He sustained fatal burns in consequence.	1	...
21	24th June	Do	Doddamaralawadi village, Kankanhalli Taluk.	A three and a half year-old child picked up a ball of "Bellulli Pattas" while playing and tumbled down with it on a stone slab when it exploded. The child died of shock and haemorrhage two days later.	1	...
22	2nd July	Do	Chikkanhalli, Tumkur Taluk.	A person struck a "chatput" on the floor when it fell on a few others that he carried in his shirt pocket. He sustained burns in consequence.	...	1
23	9th July	Gunpowder	Googardoddi village, Kankanhalli Taluk.	While a cooly was charging a hole with gunpowder an explosion occurred injuring him.	...	1
24	10th July	Gun Cartridge.	Kollaganahalli, Kankanhalli Taluk.	A boy picked up a gun cartridge and tampered with it when it exploded and injured him.	...	1
25	20th July	Blasting Gelatine.	Rathepalli, Bowringpet Taluk.	While a cooly was loading a hole with blasting gelatine, the charge exploded injuring him and a co-worker.	...	2
26	Do	Fireworks.	Devarahosahalli, Channapatna Taluk.	While displaying fireworks on the occasion of the village car festival, a spark from a lighted firework fell on the main stock which the displayer was carrying and exploded it causing him severe burns.	...	1
27	2nd Aug.	Gunpowder	In a quarry near Sivasamudram.	A spark from a "beedi" which a stone cutter was smoking fell on the powder nearby and ignited it; he sustained burns in consequence.	...	1
28	17th Aug.	Do	Seringapatam Town ...	Through drilling into an old hole containing a remnant of the previous charge of gunpowder, two coolies sustained injuries.	...	2
29	23rd Aug.	Fireworks	Aggunda village, Arsikere Taluk	During the manufacture of a mixture of "Bellulli Pattas," an explosion occurred and three persons engaged in it were injured; one of them succumbed to the effects of the injuries three days later.	1	2
30	11th Sep.	Do	Santebachahalli, Krishnarajpete Taluk.	While a person was engaged in the manufacture of "Bellulli Pattas," an explosion occurred and he sustained burns in consequence.	...	1
				Total ...	5	36

APPENDIX II—*concld.*

No.	Date of accident	Nature of explosive	Place of accident	Circumstances of accident so far as ascertained	Number of person	
					Killed	Injured
				Brought forward ...	5	36
31	12th Sep.	Detonator	Kuntebommanahalli, Nelamangala Taluk.	An agriculturist picked up a live detonator and scratched it with a knife when it exploded injuring his left hand.	...	1
32	13th Sep.	Gunpowder	In a stone quarry in the limits of Mallasandra, Yellahanka Range, Bangalore Taluk.	While a cooly was charging a hole with gunpowder it exploded and injured him.	...	1
33	3rd Oct.	Fireworks	Narasimhanahalli, Goribidnur Taluk.	An agriculturist manufactured a mixture of potassium chlorate and arsenic sulphide and kept it in an open bottle for the purpose of scaring away crows frequenting his groundnut field. As he lighted a "beedi" a spark fell into the bottle and exploded it causing him injuries.	...	1
34	12th Oct.	Gunpowder	Chickkanhalli, Kolar Taluk.	While withdrawing a charge of gunpowder from a misfire by means of an iron scraper there was an explosion and two coolies sustained injuries in consequence.	...	2
35	13th Oct.	Fireworks	Honganur Mukahalli, Chamarajnagar Taluk.	The villagers had resolved to take the idol of Sri Veerabhadraswami in procession on the last day of Dasara with display of fireworks and four persons were engaged in the manufacture of same illicitly. While they were grinding together the ingredients of firework composition in a common grinding stone, an explosion occurred and all of them sustained very serious injuries to which they succumbed the next day.	4	...
36	17th Oct.	Gunpowder	In a well in Dyavasandra village, Bangalore Taluk.	While a cooly was loading a hole with gunpowder at the bottom of a well a spark from a lighted cinder which was to be lowered later on, fell on the powder and exploded it. He was injured in consequence.	...	1
37	20th Oct.	Fireworks	Dodballapur ...	When a person was mixing together the ingredients of Bellulli Pattas, there was an explosion and he sustained burns in consequence.	...	1
38	30th Oct.	Do	Kalkunte village, Hoskote Taluk.	Two boys were engaged in the manufacture of a mixture of "Bellulli Pattas." When they were mixing together the ingredients, the mixture exploded injuring both of them.	...	2
39 to 50	...	Nitro-compound.	In Mines (Kolar Gold Field).	*Vide* Table 13	7	15
				Total ...	16	60

Summary.

Explosive	Number of accidents	Number of persons	
		Killed	Injured
Gunpowder	14	...	20
Nitro-compound	16	8	21
Fulminate	...	...	...
Ammunition	3	...	3
Fireworks	17	8	16
Grand Total ...	50	16	60

APPENDIX III.

DEPARTMENT OF MINES AND EXPLOSIVES.

With reference to notification No. G. 9745—Geol. 69-15-17, dated 18th January 1918, publishing rules to regulate the manufacture, possession, sale, transport and importation of explosives, the following list of "Authorised Explosives" referred to in Rule 4 (3) of the Mysore Explosives Rules, is published for general information :—

LIST OF AUTHORISED EXPLOSIVES.

The following explosives are at present authorised for importation into the Mysore State for general sale :—

CLASS 1.—GUNPOWDER.

The term "gunpowder" means gunpowder ordinarily so called.

GUNPOWDER.

CLASS 2.—NITRATE MIXTURE.

The term "nitrate mixture" means any preparation, other than gunpowder ordinarily so called formed by the mechanical mixture of a nitrate with any form of carbon or with any carbonaceous substance not possessed of explosive properties, whether sulphur be or be not added to such preparation, and whether such preparation be or be not mechanically mixed with any other non-explosive substance, and includes any explosive containing a perchlorate and not being a chlorate-mixture, fulminate or nitro-compound as defined in Rule 4 of the Mysore Explosives Rules, 1917.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium are used as ingredients, shall be contained in cartridge wrappers or cases (or in five-pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water-proofing material.

BOBBINITE.

CARDOX COMPOSITION.

M. Powder—Pranada—Q. Powder.

CLASS 3.—NITRO-COMPOUND.

The term "nitro-compound" means any chemical compound possessed of explosive properties or capable of combining with metals to form an explosive compound, which is produced by the chemical action of nitric acid (whether mixed or not with sulphuric acid) or of a nitrate mixed with sulphuric acid upon any carbonaceous substance, whether such compound is mechanically mixed with other substances or not.

The nitro-compound class has two divisions.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium or Nitroglycol are used as ingredients, shall be contained in cartridge wrappers or cases (or in five-pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water-proofing material.

DIVISION 1.

Division 1 comprises the following explosives and any chemical compound or mechanically mixed preparation which consists either wholly or partly of nitro-glycerine or of some other liquid nitro-compound :—

A. I. Rounkol
Amon Gelatine.
Ardeer Gelignite
Arkite, Samsonita, Samsonite
A. 2 Monobel, Viking Powder No. 1, Viking Powder No. 2
Ballistite, Nobel Cordite
Blasting Gelatine
Cambrite
Chilworth Smokeless Powder No. 2, Nacota Powder
Cordite
Cordite, M. D
Dynamite
Dynobel No. 2
Dynobel No. 3, Dynobel No. 4
Farmers' Dynamite
Gelatine Dynamite
Gelignite
Improved Bassistite.
L. G. Gelatine
Monobel No. 1
N. S. Gelatine Dynamite
N. S. Gelignite
Polar Ammon Gelatine Dynamite
Polar Ammon Gelignite
Polar Dynobel No. 2, "S"
Quarry Monobel
Rockite
Samsonita No. 3
Stonobel
Victor Powder No. 2

Provided that every explosive in this division shall be of such character and consistency as not to be liable to liquefaction or exudation.

Provided also that an explosive which is required by definition to be issued in water-proof inner packages may be exempted from such requirements by special authority when and so long as the conditions of such authority are observed.

DIVISION 2.

Division 2 comprises the following explosives and any nitro-compound as before defined which is not comprised in Division I :—

Alumatol
Ammonal
Amberite No. 2
Baelenite
Di-nitro-phenol
Economic Smokeless Sporting Powder
E. C. Sporting Powder
Eley Smokeless Sporting Powder
Empire Powder
Ideal Powder
Light Load Smokeless
Nobel's Special Powder
Guncotton
Negro Powder No. 2
Nobel Rim Neonite
N. S. Smokeless
Picric Acid
Picric Powder
Roburite No. 4
Ruby Powder
Schultze Gunpowder
Smokeless Diamond
Tonite or Cotton Powder
Tri-nitro-toluol

CLASS 4.—CHLORATE MIXTURE.

The term "chlorate mixture" means any explosive containing a chlorate.
The chlorate mixture class has two divisions.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium are used as ingredients, shall be contained in cartridge wrappers or cases (or in five-pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water-proofing material.

DIVISION 1.

Division 1 comprises any chlorate preparation which consists partly of nitro-glycerine or of some other liquid nitro-compound.

Nil.

Provided that every explosive in this division shall be of such character and consistency as not to be liable to liquefaction or exudation.

DIVISION 2.

Division 2 comprises any chlorate mixture as hereinbefore defined which is not comprised in Division 1.

Nil.

CLASS 5.—FULMINATE.

The term "fulminate,' means any chemical compound or mechanical mixture, whether included in the foregoing classes or not, which from its great susceptibility to detonation, is suitable for employment in percussion caps or any other appliances for developing detonation or which from its extreme sensibility to explosion, and from its great instability (that is to say, readiness to undergo decomposition from very slight exciting causes) is especially dangerous.

This class consists of two divisions.

DIVISION 1.

Division 1 comprises such compounds of the fulminates of silver and of mercury, and preparations of those substances such as are used in percussion caps, and any preparation consisting of a mixture of a cholrate with phosphorus or certain descriptions of compounds of phosphorus, with or without the addition of carbonaceous matter, and any preparation consisting of a mixture of a chlorate with sulphur, or with a sulphuret, with or without carbonaceous matter.

Nil.

DIVISION 2.

Division 2 comprises such substances as the chloride and the iodide of nitrogen, fulminating gold and silver, diazobenzol, and the nitrate of diazobenzol.

Nil.

CLASS 6.—AMMUNITION.

The term "ammunition" means any explosive of any of the foregoing classes when the same is enclosed in any case or contrivance, or is otherwise adapted or prepared so as to form a cartridge or charge for small arms, cannon or any other weapon, or for blasting or to form any safety or other fuse for blasting or for shells, or to form any tube for firing explosives or to form a percussion cap, detonator, fog-signal, shell-torpedo, war-rocket, or any other contrivance other than a firework.

The term "percussion cap" does not include a detonator.*

The term "detonator" means a capsule or case which is of such strength and construction and contains fulminate in such quantity that the explosion of one capsule or case would communicate the explosion to other like capsules or cases.

The term "safety fuse" means a fuse for blasting which burns and does not explode, and which does not contain its own means of ignition, and which is of such strength and construction and contains an explosive in such quantity that the burning of such fuse will not communicate laterally with other like fuses.

The ammunition class has three divisions.

DIVISION 1.

Nobel's Safety Electric Time Fuses
Percussion Caps
Railway Fog-Signals
Safety Cartridges
Safety Fuses for blasting
Safety Electric Fuses

DIVISION. 2.

Division 2 comprises any ammunition as hereinbefore defined which does not contain its own means of ignition, and is not included in Division 1.

Cartridges for Blasting or other like purposes.
Cartridges for Small Arms which are not Safety Cartridges.
Cordau Bickford.
Cordax Dotonating Fuse.
Electric Fuses.
Electric Primers.
Fuse Lighters.
Instantaneous Fuse.
Tubes for firing Explosives.
Quick Match.

DIVISION 3.

Division 3 comprises any ammunition as hereinbefore defined which contains its own means of ignition, and is not included in Division 1.

Cartridges for small arms which are not Safety Cartridges
Detonators
Electric Detonators
Friction Tubes
Nobel's Electric Delay Action Detonators
Percussion Primers
Tubes for firing Explosives

CLASS 7.—FIREWORK.

The term "firework" comprises firework composition and manufactured fireworks.

DIVISION 1.—FIREWORK COMPOSITION.

The term "firework composition" means any chemical compound or mechanically mixed preparation of an explosive or inflammable nature which is used for the purpose of making manufactured fireworks, and is not included in the former classes of explosives and also any star and any coloured fire composition subject to the proviso to the definition of manufactured fireworks.

Nil.

---

*In consequence of the results of experiments carried out, it has been decided that a percussion cap can only be properly classed as such if it contains less than 0·6 grain, of a composition of the 1st Division of the Fifth (Fulminate) Class of which not more than 25 per cent consists of fulminate of mercury or less than 0·5 grain of any other explosive of the 1st Division of the Fifth (Fulminate) Class; and it has been further decided that percussion caps shall not be classed as such when they contain anvils or have their composition unprotected by tin foil or other suitable substance as under those circumstances they are liable to explode *en masse*.

DIVISION 2.—MANUFACTURED FIREWORKS.

Manufactured fireworks consisting of any explosive of the classes 1, 2, 3, 4 and 6 and any firework composition when such explosive or composition is enclosed in any case or contrivance or is otherwise manufactured so as to form a squib, cracker, including Chinese crackers, toy-cap or amorce, serpent, rocket (other than a war-rocket), maroon, lance, wheel, Chinesefire, Roman candle, or other article specially adapted for the production of pyrotechnic effects, or pyrotechnic signals or sound signals.

Provided that a substantially constructed and hermetically closed metal case, containing not more than one pound of coloured fire composition of such a nature as not to be liable to spontaneous ignition, shall be deemed to be a "manufactured firework" and not a "firework composition."

Aluminium Torches
Electric Sparklers
Magnesium Torches
Amorces
Chinese Crackers

Distress Signal Rockets
Manufactured Fireworks
Pyrotechnic Matches
Socket Light Signals
Sparklers
Very Signal Cartridges

K. DURAISWAMIER,
Chief Inspector of Mines and Explosives in Mysore.

APPENDIX IV.

BRIEF REPORT ON THE WORKING OF THE KOLAR GOLD FIELD POLICE FOR THE OFFICIAL YEAR 1937-38.

(By Mr. C. I. Machia, b.a., Special Superintendent of Police, Kolar Gold Field.)

Strength of the Force.—Consequent on the re-distribution of the Police Force sanctioned by the Government in their Order No. P. 5477-8—Pol. 106-37-5, dated the 2nd April 1938, there was an increase of one Sub-Inspector, one Daffedar and one constable during the year under report, so that at the end of the year, the staff consisted of 4 Inspectors, 9 Sub-Inspectors, 6 Jamedars, 1 European Head Constable, 29 Daffedars and 259 Constables.

Cost of the Force.—The cost of the Force inclusive of the Temporary Establishment was Rs. 90,845-10-0 during the year as against Rs. 93,587-6-0 of last year. In addition, a sum of Rs. 10,761-2-6 was spent during the year under Travelling Allowance, Contingencies, Reward and Secret Service and Dieting and Moving charges of Prisoners as against Rs. 11,376-11-0 of last year.

Crime.—Eight hundred and thirty-one cases were reported during the year as against 758 cases of last year showing an increase of 73 cases.

Property Lost.—Property to the value of Rs. 13,543-12-8 was lost in 591 cases during the year as against Rs. 14,494-6-0 in 452 cases of last year. Property to the value of Rs. 7,423-10-0 was recovered during the year. The percentage of the value of property recovered is 54·82 as against 44·09 of last year.

Staff of the Detective Department.—The Detective Staff consisted of one Inspector, one Sub-Inspector, one Jamedar, three Daffedars and six constables. The cost of maintaining this staff is borne by Messrs. John Taylor & Sons' Committee, the cost during the year being Rs. 11,644-11-0.

Summary of the work turned out by the Detective Staff.—Thirty-four cases were detected during the year under report, of which 27 cases ended in conviction and 7 in acquittal or discharge.

General.—There was cordial co-operation between the Watch and Ward Establishment of the Gold Mines and the Kolar Gold Field Police during the year under report.

APPENDIX V.

EXTRACTS FROM THE ADMINISTRATION REPORT OF THE KOLAR GOLD FIELD SANITARY BOARD FOR THE YEAR 1937-38.

(By Mr. G. Sundara Rao, b.a., President.)

Constitution of the Board.—The Board consists of 20 members of whom 7 are *ex-officio* and 13 non-officials. Of the non-official members, 7 are nominated by the Mining Board, Kolar Gold Field, and approved by Government. Two members are elected annually from amongst the rate-payers of Robertsonpet, one from Andersonpet and one from Oorgaum Village. Two members are nominated by Government to represent the rural area under the Board.

New Bye-laws and Rules.—The Board have framed bye-laws for the registration of births and deaths in the urban area, *viz.*, Robertsonpet and Andersonpet including the Mining area and in seven villages. They have been submitted to Government for sanction.

Fresh Imposts.—No new imposts were levied during the year of report.

Public Health, Vital Statistics and Epidemics.—The figure under plague, cholera and small-pox are given below :—

			1937-38.			*1936-37.*	
			A.	D.		A.	D.
Plague	...	...	140	85		21	10
Small-pox	...	...	11	2		44	4
Cholera	...	...	.....			.....	

From the above figures it is seen that the Kolar Gold Field Sanitary Board area was free from cholera during the year under report. The Public Health was generally good.

Vaccination.—There were 6,934 vaccinations during the year as against 8,407 of last year. Of the 6,934 vaccinations, 4,449 were primary and 3,485 re-vaccinations. Of the primary vaccinations 3,736 were successful *i.e.*, 83·47 per cent and of the re-vaccinations 784 were successful, *i.e.*, 22·53 per cent.

Births and Deaths.—Five thousand three hundred and thirty-five births were registered during the year under report as against 4,796 in the previous year giving a birth-rate of 62·47 per mille of population as against 56·36 of the previous year.

Infant Mortality.—Seven hundred and eighty-four deaths of children under one year of age were reported during the year under report as against 832 in the year previous giving a ratio of 163·39 as against 173·4 in the previous year.

Water Supply.—There was sufficient supply of water from Bethamangala filters to the mines, Robertsonpet, Andersonpet and Masikam Village. The cost incurred under this head was Rs. 33,965-1-4 against Rs. 29,960 in 1936-37.

Avenue Trees and Parks.—The avenue trees in Kolar Gold Field Sanitary Board area maintained by the Board are in a fairly good condition. The King George Hall Park and Silver Jubilee Park at Robertsonpet were also maintained in good condition.

Progress of Special Schemes sanctioned.—Government have sanctioned an estimate of Rs. 66,300 for constructing 12 stalls at Rs. 5,000 each in the market at Robertsonpet. The estimate is being worked out year by year.

Improvement of Public Works.—An estimate at a cost of Rs. 16,640 was sanctioned by Government for tarring the road from Robertsonpet Travellers' Bungalow to Andersonpet during the year under report. The work could not be taken up as no steam roller was available during the year. It is now proposed to buy a steam roller for the use of the Board.

High School.—The construction of a building for the Aided Sanitary Board High School is nearing completion and it will be ready for occupation shortly.

General.—The Chief Medical and Sanitary Officer, Kolar Gold Field Hospital, the Superintendents of the several Mines, the Secretary, Messrs. John Taylor & Sons' Committee and the Mining Board and other non-official members of the Board heartily co-operated, as usual, in the administration of the Board.

REPORTS OF THE CHIEF INSPECTOR OF MINES IN MYSORE.

Containing Statistical Tables relating to Capital, Machinery and Plant.

Work done and number of persons employed. Production and cost, accidents and mortality.

A few notes and reports on items of interest are mentioned in the following list :—

Year 1898.—Total gold production to date, treatment of ore. Classification of accidents.

Year 1899.—Minor economic products, classification of accidents, Air-blast—Plague on the Kolar Gold Field.

Appendix—Note on the Geology of the Kolar Schists and surrounding rocks.

Map of the Kolar Schist Belt—Plate I.

Map of the Kolar Field—Plate II.

Year 1900.—Labour, wages and costs. The Cauvery Falls Power Scheme.

Year 1901.—Water-supply for the Kolar Gold Field. Report on the Woolagiri and Amble Mining Blocks, Mysore District, with map and sections. Report on the Ajjampur Block, Kadur District, with map and sections. Note on the New Town (Robertsonpet), Kolar Gold Field, by F. E. C. Carr, Esq., Deputy Commissioner.

Year 1902 *to June* 1903.—Tetanus on the Kolar Gold Field with statistics.

Mine signalling with diagrams.

Air-blasts and quakes: general report with sketches.

Year 1903-04.—Working costs in the Kolar Mines. Note on Milling and Cyanide Practice on the Kolar Field. The Cauvery Power Supply. The Kolar Mines Power Station.

Year 1904-05.—General progress notes. East Betrayaswami Block, Kolar District. Bellara Block, Tumkur District.

Year 1905-06.—General Progress Notes. Fire at the Nundydroog Mine.

Year 1906-07.—Note on the Bellara, Javanhalli and other gold blocks in the Tumkur and Chitaldrug Districts on the Honnehatti, Tambadihalli, Jalagargundi, Nandi, Sakrebyle, Devrukal and other gold blocks in the Kadur and Shimoga Districts. Reports on the Woolagiri Mine and the Hunjankere Block, Mysore District. The Anantapur Gold Field. Manganese Prospecting Blocks. Chrome Ores of the Hassan and Mysore Districts.

Year 1907-08.—Reports on Shaw's Block and Ahmed's Block, Kolar District. Further Notes on Prospecting Blocks in various districts.

Year 1908-09.—Fire at the Nundydroog Mine. Air-blast in the New Circular Shaft, Champion Reef, with sketch of the Sinking Frame and Protective Shield.

Year 1909-10.—The Kolar Mines Power Station. Air-blast, Champion Reef. Fracture of winding rope.

Year 1910-11.—Notes on Air-blasts and Quakes.

Year 1911-12.—Report on the Manighatta Block, Kolar District, with plans.

Progress in ore treatment on the Kolar Field. Proposed schemes for treatment of tailings and slimes.

Report on Seismographs for recording Air-blasts.

Year 1912-13.—Notes on the Siddarhalli, Nandi, Woolagiri and other Gold Mining Blocks.

Notes on the Holmes', Python, Chattanhalli, Sigimatti, Markande, Tippur and Shankaragudda Manganese Blocks in the Shimoga District.

Year 1913-14.—Progress notes, Kolar District. The Siddarhalli and Jalagurgundi Mines, etc., Kadur District.

Prospecting work at Kudrikonda, Palavanhalli and Honnali, Shimoga District, alluvial washings at Saulanga and on the Thungabhadra river. Manganese, Chrome,

Magnesite, Iron Ore, Mica, Copper, Asbestos and Corundum. Notes on Air-blasts, Meteorology and Seismology on the Kolar Gold Field.

Report on the Edgar's Shaft Cage accident, Mysore Mine.

Year 1914.—Progress notes, Kolar District. Notes on the Kumsi and Shankaragudda Manganese Blocks in the Shimoga District, Chrome, Magnesite, Iron ore, Mica, Copper, Asbestos, Corundum, Columbite and Clay. Notes on Accidents—Air-blasts, Meteorology and Seismology on the Kolar Gold Field.

Year 1915-16.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Mica, Asbestos, Antimony and Corundum. Notes on accidents, Meteorology and Seismology on the Kolar Gold Field.

Year 1916-17.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Antimony, Corundum, Galena, Kaolin or China Clay, Potstone and Ochres. Notes on accidents. Meteorology and Seismology on the Kolr Gold Field.

Year 1917-18.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Antimony, Corundum, Galena, Kaolin, Potstone and Ochres. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field.

Year 1918-19.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Antimony, Corundum, Galena, Kaolin, Potstone, Ochres, Pyrites and Copper. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Sketch describing the method of Rill Stoping showing the various stages.

Year 1919-20.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Antimony, Corundum, Potstone, Kaolin, Ochres, Pyrites, Limestone and Galena. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field.

Year 1920-21.—Progress notes, Kolar District. Notes on Manganese, Chrome Ore, Magnesite, Asbestos, Mica, Soapstone, Kaolin, Ochres, Limestone, Antimony, Corundum and Galena. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field.

Year 1921-22.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Kaolin or China Clay, Ochres, Corundum, Limestone, Copper, Slate and Graphite. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field.

Year 1922-23.—Progress notes, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Kaolin or China Clay, Ochres, Corundum Limestone, Copper, Slate and Graphite. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1923-24.—Notes from mines, Kolar District. Notes on Manganese Chrome, Magnesite, Asbestos, Mica, Kaolin or China Clay, Soapstone, Limestone Corundum and Ochres. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1924-25.—Notes from mines, Kolar District. Notes on Manganese Chrome, Magnesite, Asbestos, Mica, Kaolin or China Clay, Soapstone, Fire Clay, Limestone and Dolomite and Corundum. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1925-26.—Notes from mines, Kolar District. Notes on Manganese, Chrome, Magnesite, Asbestos, Mica, Kaolin or China Clay, Soapstone, Limestone (Manganiferous), Corundum, Iron ore and Limestone. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1926-27.—Notes from mines, Kolar District. Notes on Manganese, Chromite, Magnesite, Asbestos, Mica, Corundum, Green Quartzite, Kaolin or China Clay, Limestone (Manganiferous), Soapstone, Fuller's Earth, Iron ore and Limestone. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1927-28.—Notes on mines. Notes on Manganese, Chromite, Magnesite, Kaolin or China Clay, Soapstone and Green Quartzite. Notes on accidents, Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1928-29.—Notes on mines. Notes on Manganese, Chromite, Copper, Kaolin or China Clay, Soapstone and Asbestos. Notes on accidents. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1929-30.—Notes on mines. Notes on Manganese, Chromite, Magnesite, Kaolin or China Clay, Soapstone and Graphite. Meteorology and Seismology on the Kolar Gold Field. Explosives Section —Inspection of explosives, magazines and premises. Accidents from explosives.

Year 1930-31. Notes on mines. Notes on Manganese, Chromite, Magnesite. Kaolin or China Clay, Soapstone, Kyanite, Staurolite and Garnet. Meteorology and Seismology on the Kolar Gold Field. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from explosives. Fire at Nundydroog Mine. Charts of Gold Production, Value in Sterling, Royalty, Tonnages Crushed, Fatal and Serious Accidents and Base Minerals Production from beginning of operations.

Year 1931-32.—Notes on mines. Notes on Manganese, Chromite, Magnesite, Kaolin, Soapstone, Corundum, Green Quartzite, Kyanite, Staurolite, Garnet, Asbestos and Mica. Meteorology and Seismology on the Kolar Gold Field, Underground Air Temperatures. Explosives Section.—Inspection of explosives, magazines and premises. Accidents from Explosives.

Year 1932-33.—Notes on mines. Notes on base minerals. Detailed notes on Meteorology and Seismology on Kolar Gold Field. Welfare work. Miners' Phthisis. Underground Air Temperatures. Explosives Section. Charts of Gold Production, value in sterling, working costs, profits, Dividends paid and Royalty and monthly Gold production and average price of gold. Workmen's Compensation.

Year 1933-34.—Notes on Mines, Notes on base minerals. Detailed notes on Meteorology and Seismology on Kolar Gold Field. Welfare work. Miners' Phthisis. Underground Air Temperatures. Explosives Section. Charts of Gold Production and average price of gold, Fatal accidents and cost of support of workings.

Year 1934-35.—Notes on Mines. Notes on Manganese, Chromite, Magnesite, Kaolin, Red Earth, Soapstone, Green Quartzite, Kyanite, Staurolite and Garnet. Meteorology and Seismology on the Kolar Gold Field. Underground Air Temperatures. Explosives Section. Charts of Gold Production, Value in Sterling, Royalty paid and Average Price of Gold. Fatal and Serious Accidents. Cost of support of workings.

Year 1935-36.— Do.

The price of each Report is two rupees.

REPORTS OF THE CHIEF INSPECTOR OF EXPLOSIVES IN MYSORE.

Published annually from the year 1901 to 1921 inclusive. *Price eight annas each.* The report for 1901 contains standard plans of Magazines and Lightning Conductor.

Explosives Section (Notes) for the years 1922-23 onwards are incorporated in the annual reports of the Chief Inspector of Mines and Explosives in Mysore

WD 580—GPB—120—11-2-89.